REGULAR MEETING STARTS AT 6:00 PM
Mayor Dan Epperson
Vice Mayor Rodney Plamondon
Council Member Dominic Atlan
Council Member Stacy Rhoades
Council Member Diane Wratten

DUE TO THE GOVERNOR'S EXECUTIVE ORDER N-25-20, THE CITY OF IONE WILL BE CONDUCTING ITS MEETING IN PERSON AT 1 E. MAIN STREET, IONE, CA 95640 AND VIA ZOOM

City of Ione is inviting you to a scheduled Zoom meeting.
Join Zoom Meeting
https://zoom.us/j/2351961316?pwd=d3lWTW0zbVJLblpQNXBDQWtpZkRyUT09
Meeting ID: 235 196 1316
Passcode: 95640
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+16699006833,,2351961316#,,,,*95640# US (San Jose)
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Dial by your location
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Meeting ID: 235 196 1316
Passcode: 95640
Find your local number: https://zoom.us/u/aex3ZLbqgp

Tuesday, January 18, 2022
1 E. Main Street
Ione, CA 95640

THE CITY OF IONE IS A GENERAL LAW CITY DEDICATED TO PROVIDING LEADERSHIP, ACCOUNTABILITY, AND FISCAL INTEGRITY WHILE PROMOTING ECONOMIC OPPORTUNITIES AND MAINTAINING A HIGH QUALITY OF LIFE FOR OUR CITIZENS

PLEASE LIMIT PUBLIC COMMENT/TESTIMONY TO FOUR MINUTES
Gov't. Code §54954.3

The Ione City Council welcomes, appreciates, and encourages participation in the City Council Meeting. The City Council reserves the right to reasonably limit the total time for public comment on any particular noticed agenda item as it may deem necessary.
Full staff reports and associated documents are available for public review at the Office of the City Clerk, City Hall, 1 E. Main Street, Ione, CA. Hard copies may be obtained for $3.60 for pages 1-5 and $.45 for each additional page. Documents that are not available when the agenda is posted will be made available for public review at the meeting.

AGENDA

A. ROLL CALL

B. PLEDGE OF ALLEGIANCE

C. APPROVAL OF AGENDA

C. PRESENTATIONS/ANNOUNCEMENTS:

- John Stewart Award – Police Chief, Jeff Arnold

E. PUBLIC COMMENT: **EACH SPEAKER IS LIMITED TO 4 MINUTES**

NOTE: This is the time for members of the public who wish to be heard on matters that do not appear on the Agenda. Persons may address the City Council at this time on any subject within the jurisdiction of the Ione City Council.

Please be mindful of the ***4 minute time limit per person****.Pursuant to the Brown Act, the City Council may not take action or engage in a detailed discussion on an item that does not appear on the Agenda. However, matters that* ***require Council action will be referred to staff for a report and/or recommendation for possible action at a future Council meeting. Is there anyone in the audience who wishes to address the Council at this time?***

F. CONSENT CALENDAR:

Notice to the Public: All matters listed under this category are considered to be routine and will be enacted by one motion. Any item may be removed for discussion and possible action and made a part of the regular agenda at the request of a Council Member(s).

1. Approval of Minutes:
   - December 7, 2021-Special Meeting
   - December 7, 2021 – Regular Meeting
   - December 21, 2021 – Regular Meeting
2. Groundwater Monitoring Reports – Third Quarter, 2021

H. PUBLIC HEARING: None

I. REGULAR AGENDA:

3. Adoption of Resolution No. 2022-01 Approving the Fiscal Year 2020/2021 Regional Traffic Mitigation Fee Program Annual Report and Funding Options for Fiscal Year 2021/2022

4. Delete Administrative Analyst and Add Management Analyst Position to the Salary Schedule
5. Approve Salary Range at Step 5 for Building Inspector/Code Enforcement Officer
6. Award of Information Technology Services Agreement to Computer Brokers and Systems Corporation
7. Appointment of City Council Committee Assignments for 2022 – Mayor Dan Epperson
8. Review, Discussion, and Possible Approval of Guest Commentary Letter on behalf of the Council of the City of Ione

K. REPORTS AND COMMUNICATIONS FROM CITY MANAGER

L. COUNCIL COMMENTS/COMMITTEE REPORTS/FUTURE AGENDA ITEMS

M.CLOSED SESSION:

- Conference with Legal Counsel – Anticipated Litigation: Significant Exposure to Litigation Pursuant to Paragraph (2) of Section 54956.9 of the Government Code – Four (4) Cases
- Conference with Legal Counsel – Existing Litigation Paragraph 1 of Subdivision (d) Section 54956.9 – Bittick v City of Ione et. al Amador Superior Court Case No: 21-CV-12146
- Public Employee Performance Review – Interim City Manager – Pursuant to Government Code 54957.9

N. ADJOURNMENT

NOTICE REGARDING CHALLENGES TO DECISIONS

Pursuant to all applicable laws and regulations, including without limitation, California Government Code Section 65009 and or California Public Resources Code Section 21177, if you wish to challenge in court any of the above decisions (regarding planning, zoning and/or environmental decisions), you may be limited to raising only those issues you or someone else raised at the public hearing(s) described in this notice/agenda, or in written correspondence delivered to the City at, or prior to, this public hearing.

ADA COMPLIANCE STATEMENT

In compliance with the American with Disabilities Act, if you need special assistance to participate in this meeting, please contact City Clerk Janice Traverso at (209) 274-2412, ext. 102. Notification 24 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting.

I, Janice Traverso, the City Clerk of the City of Ione declare under penalty of perjury that the foregoing agenda for the Tuesday, January 18, 2022 meeting of the Ione City Council was posted on January 14, 2022

Janice Traverso, City Clerk

CITY OF IONE SPECIAL COUNCIL MEETING MINUTES
Meeting of December 7, 2021

Mayor Rhoades called meeting to order at 5:30 PM and led the Pledge of Allegiance.

A. ROLL CALL:

Present: Stacy Rhoades, Mayor
Dominic Atlan, Vice Mayor
Dan Epperson, Councilmember
Rodney Plamondon, Councilmember (Teleconference)
Diane Wratten, Councilmember (Arrived at 5:53 p.m.)

Staff: Michael Rock, Interim City Manager
Sophia Meyer, City Attorney (Teleconference)

B. APPROVAL OF AGENDA:

It was moved by Councilmember Epperson, seconded by Vice Mayor Atlan and carried to approve the agenda.
AYES: Rhoades, Atlan, Epperson, Plamondon
NOES: None
ABSENT: Wratten
ABSTAIN: None

C. CLOSED SESSION: Council convened to Closed Session to discuss the following:

- Conference with Labor Negotiations Pursuant to Government Code 54957.6
  a. Agency Negotiators – Michael Rock, Interim City Manager
  b. Employee Organization: Ione Police Officers Association
- Public Employee Performance Review – Interim City Manager: Pursuant to Government Code 54957.9
- Public Employee Performance Review – City Attorney: Pursuant to Government Code 54957.9
- Conference with Legal Counsel – Anticipated Litigation: Significant Exposure to Litigation Pursuant to Paragraph (2) of Section 54956.9 of the Government Code – Four (4) Cases

Council added one item to the Closed Session:

- Pursuant to Government Code Section 54956.8 Conference with Real Property Negotiator
  Property: 17 E. Main Street – APN 004-101-006
  Agency Negotiator: Michael Rock, Interim City Manager
  Negotiation Parties: Wayne Moore, Property Owner

At 6:00 PM Mayor Rhoades announced that the Closed Session will continue after the Regular Meeting. Council returned to Closed Session at 6:27 PM .

D. DISPOSITION OF CLOSED SESSION:

Conference with Labor Negotiations Pursuant to Government Code 54957.6

a. Agency Negotiators – Michael Rock, Interim City Manager
b. Employee Organization: Ione Police Officers Association – **Direction was given to staff – Councilmember Wratten was not present.**

- Public Employee Performance Review – Interim City Manager: Pursuant to Government Code 54957.9 – **Information was received and direction was given.**
- Public Employee Performance Review – City Attorney: Pursuant to Government Code 54957.9 – **Direction was given to staff.**
- Conference with Legal Counsel – Anticipated Litigation: Significant Exposure to Litigation Pursuant to Paragraph (2) of Section 54956.9 of the Government Code – Four (4) Cases – **Vice Mayor Atlan recused himself for one case. Mayor Rhoades recused himself for one case.**

Council added one item to the Closed Session:

- Pursuant to Government Code Section 54956.8 Conference with Real Property Negotiator
  Property: 17 E. Main Street – APN 004-101-006
  Agency Negotiator: Michael Rock, Interim City Manager
  Negotiation Parties: Wayne Moore, Property Owner
  Information was received and direction was given - Councilmember Wratten was not present.

E. ADJOURNMENT:

Mayor Rhoades adjourned meeting.

Respectfully submitted,

Janice Traverso, City Clerk

CITY OF IONE COUNCIL MEETING MINUTES
Meeting of December 7, 2021

Mayor Rhoades called meeting to order at 6:00 PM

A. ROLL CALL:

Present: Stacy Rhoades, Mayor
Dominic Atlan, Vice Mayor
Dan Epperson, Councilmember
Rodney Plamondon, Councilmember (Teleconference)
Diane Wratten, Councilmember

Staff: Michael Rock, Interim City Manager
Sophia Meyer, City Attorney (Teleconference)

B. PLEDGE OF ALLEGIANCE:

Mayor Rhoades led the Pledge of Allegiance.

C. APPROVAL OF AGENDA:

It was moved by Councilmember Epperson, seconded by Councilmember Plamondon and carried to approve of the agenda as written.

AYES: Rhoades, Atlan, Epperson, Plamondon, Wratten
NOES: None
ABSENT: None
ABSTAIN: None

D. PRESENTATIONS/ANNOUNCEMENTS: None

E. PUBLIC COMMENT:

Jim Nevin commented that on Next Door Ione (website) a statement was made that the City wants to tear down the Arena to allow more parking at Howard Park.

AYES: Rhoades, Atlan, Epperson, Plamondon, Wratten
NOES: None
ABSENT: None
ABSTAIN: None

F. CONSENT CALENDAR:

It was moved by Councilmember Wratten, seconded by Councilmember Plamondon and carried to approve the following:

1. Approval of Minutes: November 2, 2021 and November 16, 2021 Minutes
2. Monthly Council Check Register – November 20, 2021
3. Receive and file City of Ione Community Facilities District No. 2005-2 Annual Accountability Reports for the Period Ending October 31, 2021
4. Adoption of Resolution No. 2021-32 – Prohibiting Parking on a portion of Main Street During the Ione Christmas Parade

AYES: Rhoades, Atlan, Epperson, Plamondon, Wratten
NOES: None
ABSENT: None
ABSTAIN: None

G. PUBLIC HEARING: None

DISCUSSION ITEMS:

For the record: Action minutes provide the necessary documentation of City Council action. Audio recordings are retained for those desiring more detail on particular agenda item discussions. These audio recordings provide an accurate and comprehensive backup of City Council deliberations and citizen discussions.

J. REGULAR AGENDA:

5. Consider Approval of Agreement with West Yost to Provide Engineering Design Services for the Wastewater and Tertiary Treatment Plans Interconnection Piping Project – Michael Rock explained that at the City Council meeting on May 18, 2021, the Council approved of releasing a RFP for design of Improvements associated with the WWTP Headworks Replacement, Irrigation Well and Interconnection with the Castle Oaks Water Reclamation Plant for an approximate cost of $206,000. This is Phase 1 of the Headworks Project and must be completed before the next Phase can commence. Staff advertised and received one responsive bid from West Yost in the amount of $113,293.
    - Recommending Interconnect Project First
    - February, 2023 significant grant funds will be available to do Headworks Project
    - Special agreement needed to update the WDR Permit for Wastewater Plant, which needs to be done soon

Mayor Rhoades commented that the interconnect pipe already exists and was last used in 1997, and is already connected to the Tertiary Plant. Vice Mayor Atlan agreed that there is a pipe there, but believe it is the ARSA pipe.

Jim Scully handed out drawings of the Five Mile Bridge and the various pipes that are unused. If the pipe you are considering using is the white pipe that is on the up end of the bridge, that pipe is starting to degrade because of being out in the sun too long.

David Anderson:

- The proposed alignment only includes CDCR and does not affect ARSA
- Regional Water Quality Control Board has advised you of the exposure to liabilities of taking CDCR contaminated water
- The pipeline already exists so the Interconnect is not necessary

It was moved by Councilmember Epperson, seconded by Vice Mayor Atlan and carried to approve the agreement with West Yost for the Interconnection Piping Project.
AYES: Rhoades, Atlan, Epperson, Plamondon, Wratten
NOES: None
ABSENT: None
ABSTAIN: None

6. Consider Salary Range Adjustment for the Finance Manager Classification – Michael Rock commented that a compensation study was done for surrounding cities and the average base salary is $128,657, and is recommending the new salary range: $84,148.34 – $102,282.84. This represents an 18% increase in the salary range. The City has funding available for the increase due to salary savings on positions not filled and increasing revenues. It was moved by Councilmember Wratten, seconded by Vice Mayor Atlan and carried to approve the Salary Range Adjustment for the Finance Manager.
   AYES: Rhoades, Atlan, Epperson, Plamondon, Wratten
   NOES: None
   ABSENT: None
   ABSTAIN: None

7. Consider Adopting Resolution No. 2021-33 Directing the Preparation of Interim Guidance Rules and Regulation to Implement SB 9 – The California Home Act; and Directing the Preparation of an SB 9 Implementing Ordinance. SB 9 requires local jurisdictions to approve up to two units in existing single-family zones, subject only to objective local standards that would permit at least two 800 square feet units per lot in single-family zones and that allow for the division of one existing lot into two lots of at least 1,200 square feet. SB 9 mandates housing developments and urban lot splits be considered ministerially, without discretionary review or hearing, subject to certain requirements and conditions. It was moved by Councilmember Wratten, seconded by Vice Mayor Atlan and carried to adopt Resolution No. 2021-33
   AYES: Rhoades, Atlan, Epperson, Plamondon, Wratten
   NOES: None
   ABSENT: None
   ABSTAIN: None

8. Set Date for Town Hall Meeting in January, 2022 – Council set the date for the Town Hall Meeting as January 10, 2022.

K. REPORTS AND COMMUNICATIONS FROM CITY MANAGER: None

L. COUNCIL COMMENTS/COMMITTEE REPORTS/FUTURE AGENDA ITEMS:
Dominic Atlan – Future Agenda Item – RWQCB Meeting – December 14, 2021 – ZOOM Only

M. ADJOURNMENT:
Mayor Rhoades adjourned the meeting.

Respectfully submitted,

Janice Traverso. City Clerk

CITY OF IONE COUNCIL MEETING MINUTES
Meeting of December 21, 2021

Mayor Rhoades called meeting to order at 6:00 PM

A. ROLL CALL:

Present: Stacy Rhoades, Mayor
Dominic Atlan, Vice Mayor
Dan Epperson, Councilmember
Rodney Plamondon, Councilmember
Diane Wratten, Councilmember

Staff: Michael Rock, Interim City Manager
Sophia Meyer, City Attorney
Janice Traverso, City Clerk

B. PLEDGE OF ALLEGIANCE:

Mayor Rhoades led the Pledge of Allegiance.

C. APPROVAL OF AGENDA:

It was moved by Councilmember Epperson, seconded by Vice Mayor Atlan and carried to move Closed Session to the end of the meeting and add under "Presentation" – Twin Pines, LLC.

AYES: Rhoades, Atlan, Epperson, Plamondon, Wratten
NOES: None
ABSENT: None
ABSTAIN: None

D. PRESENTATIONS/ANNOUNCEMENTS:

- Dolores Larrigan, Treasurer Ione Business and Community Association presented the Council with a check for $100 for the new small Dog Park at Howard Park that the City is planning on building.
- Twin Pines Minerals, LLC donated $1,000 to the Arena for sand and delivered by Rick Kreth. Twin Pines Minerals, LLC also donated $2,000 to COPS for Kids.

E. PUBLIC COMMENT:

Jim Scully, presented a letter from Amy Gedney, ARSA, Sutter Creek to Michael Rock, Interim City Manager regarding ARSA's disposal right to the City of Ione and their priority over CDCR's discharge.

Larry Rhoades, if we had Written Communications, citizens would have known about this letter at the December 7, 2021 meeting. Michael Rock, Interim City Manager commented that this item is part of tonight's Closed Session.

Greg Morris commented that he is here on behalf of 34 people who wanted someone to stand up and say, "thank you very much to Mayor Rhoades for his year of service, they really appreciate what he has done individually and the City".

F. CONSENT CALENDAR: None

G. PUBLIC HEARING: None

DISCUSSION ITEMS:

For the record: Action minutes provide the necessary documentation of City Council action. Audio recordings are retained for those desiring more detail on particular agenda item discussions. These audio recordings provide an accurate and comprehensive backup of City Council deliberations and citizen discussions.

H. REGULAR AGENDA:

1. Adoption of Resolution No. 2021-34 – Declaring the Purpose and Need for a Rural Exemption from the Organic Waste Collection Requirements Specified in the SB 1383 Regulations – Michael Rock explained that SB 1383 require local jurisdictions to provide organic waste collection services and specifies color and labeling requirements for garbage, recycling and organic waste containers. SB 1383 requires customers to separate the materials in the appropriate container, and requires the hauler to transport the separated materials to the appropriate facilities for processing or disposal. It was moved by Councilmember Wratten, seconded by Councilmember Plamondon and carried to adopt Resolution No. 2021-34.
   AYES: Rhoades, Atlan, Epperson, Plamondon, Wratten
   NOES: None
   ABSENT: None
   ABSTAIN: None

I. SELECTION OF MAYOR AND VICE MAYOR FOR 2022

It was moved by Vice Mayor Atlan, seconded by Councilmember Wratten and carried to nominate Councilmember Epperson as Mayor for 2022.
AYES: Rhoades, Atlan, Epperson, Plamondon, Wratten
NOES: None
ABSENT: None
ABSTAIN: None

It was moved by Vice Mayor Atlan, seconded by Councilmember Wratten and carried to nominate Councilmember Plamondon as Vice Mayor for 2022.
AYES: Rhoades, Atlan, Epperson, Plamondon, Wratten
NOES: None
ABSENT: None
ABSTAIN: None

J. REPORTS AND COMMUNICATIONS FROM CITY MANAGER

- Signed escrow papers today for 17 E. Main Street
- New carpet in City Hall has been installed
- Town Hall Meeting, January 10, 2022 at 6:00 PM
- City is in the process of hiring a Maintenance Worker, made offer to Building Inspector/Code Enforcement
- Administrative Assistant position offered to Andrea Bonham

K. COUNCIL COMMENTS/COMMITTEE REPORTS/FUTURE AGENDA ITEMS:

- Dominic Atlan announced that LAFCO has a new Executive Officer Kris Berry
- Stacy Rhoades commented that at the last Blood Drive, the City lost power and the generator purchased with COVID funds did not work. Mayor Rhoades asked for a full report on the solar project for the Wastewater facility.
- Diane Wratten – future Agenda Item – expanding solar to other City facilities.

L. CLOSED SESSION: Council convened to Closed Session to discuss the following:

- Public Employee performance Review – Interim City Manager – Pursuant to Government Code 54957.9
- Public Employee Performance Review – City Attorney – Pursuant to Government Code 54957.9
- Conference with Legal Counsel – Anticipated Litigation: Significant Exposure to Litigation Pursuant to Paragraph (2) of Subdivision (d) of Section 54956.9 Five (5) Cases
- Conference with Legal Counsel – Existing Litigation Paragraph (1) of Subdivision (d) of Section 54956.9 – Bittick v. City of Ione, et al. Amador Superior Court Case Number: 21-CV-12146

M. DISPOSITION OF CLOSED SESSION ITEMS: Council reconvened to Closed Session and Mayor Epperson announced the following:

- Public Employee performance Review – Interim City Manager – Pursuant to Government Code 54957.9 –**Review was held and direction was given to staff.**
- Public Employee Performance Review – City Attorney – Pursuant to Government Code 54957.9 – **Review held—information only.**
- Conference with Legal Counsel – Anticipated Litigation: Significant Exposure to Litigation Pursuant to Paragraph (2) of Subdivision (d) of Section 54956.9 Five (5) Cases – **Update given and information was received. Two of the five items Stacy Rhoades recused himself due to conflict. One of the five items Dominic Atlan recused himself due to conflict.**
- Conference with Legal Counsel – Existing Litigation Paragraph (1) of Subdivision (d) of Section 54956.9 – Bittick v. City of Ione, et al. Amador Superior Court Case Number: 21-CV-12146 **– Update given. Stacy Rhoades and Dominic Atlan recused themselves due to conflict.**

N. RESPONSE TO STATEMENT REGARDING GENERATOR IN OPEN SESSION: Staff was directed to put the generator on manual by former Interim City Manager. The on-call staff was not notified in a timely manner at the time the power went out. Staff is looking at the internal process for future.

O. ADJOURNMENT:

It was moved by Councilmember Atlan, seconded by Vice Mayor Plamondon and carried to adjourn.

#2

GROUNDWATER MONITORING REPORT
THIRD QUARTER 2021

THE CITY OF IONE
WASTEWATER TREATMENT FACILITY (WWTF)
IONE, CA 95640

Submitted on

OCTOBER 28, 2021

Prepared for

THE CITY OF IONE
1 EAST MAIN STREET
IONE, CA 95640

Prepared by

EcoUrban Associates
PO Box 411
Ione, CA 95640

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QUARTERLY MONITORING REPORT
THIRD QUARTER 2021

Order No. R5-2013-0022 (Rev.1)

CITY OF IONE
1 E. MAIN ST.
IONE, CA 95640

1.0 INTRODUCTION

This groundwater monitoring report describes the results of the third quarter 2021 groundwater monitoring and sampling activities at the City of Ione (City) Wastewater Treatment Plant (WWTP) in Ione, California. The WWTP is located approximately 1 mile west of Ione on the south bank of Sutter Creek in Section 26, T6N, R9E, Mount Diablo Baseline and Meridian, Amador County, California. A Vicinity Map is presented as **Figure 1** in Appendix A. This Report is provided by EcoUrban Associates (EUA) at the request of the Ione City Manager to comply with groundwater monitoring requirements in the Revised Monitoring and Reporting Program (MRP) No. R5-2013-0022 (Rev.1), and Cease and Desist Order (CDO) R5-2014-0157, adopted December 5, 2014. A CDO was also received in 2019 (R5-2019-0701) requiring the City collect and analyze groundwater samples from wells P-3 and P-5B for the second and third quarter of 2019. Apparently, that work was never performed that year so it is being conducted in those said quarter this year. Other wells were listed in the CDO but they are either already being sampled or the wells are destroyed. The consultant was not made aware of this requirement until May of this year by the City Mayor. This report includes data from these two additional wells; results are summarized in Section 7.2 of this report.

A Site Map indicating the monitoring well locations is presented as **Figure 2** in Appendix A. Also included with this Report are field forms and laboratory analytical results. This Report was submitted to the City for review and comment and is submitted on the City's behalf by EcoUrban to the California Central Valley Regional Water Quality Control Board (RWQCB).

2.0 SITE DESCRIPTION

The WWTP is situated in Ione Valley at the south corner of the intersection between West Marlette Street and Dave Brubeck Road (formerly Old Stockton Road). All monitoring wells are spread out across the valley and bordered to the north by Sutter Creek. The topography slopes toward the west slightly and the surrounding properties are primarily agricultural. A residential neighborhood is located adjacent to the northeast corner of the site.

2.1 Monitoring Network

The WWTP is monitored by an on-site network of nine groundwater monitoring wells and four piezometers. Each quarter, samples are collected from the nine wells and depth-to-

water measurements are collected from the nine on-site monitoring wells, the four piezometers, and the six offsite monitoring wells (MW-08 series).
The groundwater monitoring well network consists of the following: MW-1 and MW-1A, located east of the WWTP; wells MW-2A, installed in July 2013, and MW-2 monitor groundwater downgradient from percolation Pond 5; well MW-2, located between Ponds 4 and 5 and Sutter Creek; and wells MW-3, MW-3A, MW-4, MW-4A, and MW-5A monitor downgradient groundwater. The collection of surface water samples from Sutter Creek is not required by the MRP. As previously mentioned, wells P-3 and P-5B have been added for this sampling event per CDO R5-2019-0701. As of the writing of this report, these wells are not required in future sampling events. The six offsite MW-08 series wells are located east and south of the WWTP. Deep wells are herein designated "A" and shallow wells "B".

Three inactive wells (MW-5, MW-6, and MW-7), were destroyed during the previous quarter as described in the *Well Destruction Report* dated August 15, 2017.

3.0 MONITORING AND REPORTING REQUIREMENTS

MRP No. R5-2013-0022 (Rev.1) specifies quarterly monitoring of the site wells. The groundwater elevation is measured at all locations, and then the wells are purged of at least three casing volumes until the pH, electrical conductivity (EC), and temperature stabilize. Temperature, pH, and EC measurements are collected during purging and at the time of sampling. The MRP specifies the quarterly analysis of groundwater samples for pH, total dissolved solids (TDS), nitrate as nitrogen (nitrate-N), ammonia as nitrogen (ammonia-N), dissolved iron, dissolved manganese, and total coliform organisms (TCO).

In addition to the quarterly analyses, the annual analyses include total nitrogen (TN), dissolved arsenic, aluminum, boron, calcium, magnesium, potassium, sodium, total alkalinity (including alkalinity series), chloride, sulfate, and hardness. These annual tests were conducted last quarter.

All analytical results are compared to groundwater limitations defined in the Waste Discharge Requirements Order R5-2013-0022-001 (WDR) and the CDO. Values used in this Report are included in **Table A through E** within the text of this report and in **Tables 1, 2, and 3** of the tables section of this report.

The CDO specifies quarterly monitoring of well MW-2, MW-2A, MW-3, and MW-3A for pH, EC, dissolved oxygen (DO), oxidation-reduction potential (ORP), TDS, dissolved iron, and dissolved manganese. Results from these analyses are included in **Appendix B** of this Report.

Monitoring and sampling were performed by EcoUrban personnel who are trained in the operation of field-testing instruments. The field technician training includes instrument calibration in compliance with the manufacturer's recommended procedures and

frequencies. Instrument calibration records are included with the field forms in **Appendix A**.

4.0 SAMPLING PROCEDURES AND WWTP POND ELEVATIONS

4.1 Quarterly Well Sampling

On September 19th and 21nd of 2021, EUA performed quarterly groundwater monitoring and sampling at the WWTP. The depth to water in all WWTP monitoring wells was measured using an electrical sounding tape decontaminated between wells. All wells were purged of at least three casing volumes of water using a dedicated disposable bailer. Since dedicated bailers were used, no triple-rinse decontamination was performed for each well. Field parameters were recorded during purging with observation and documentation regarding the groundwater drawdown and recharge in each well. Purge rates ranged from approximately 0.5 gallon per minute (gpm) to 2.5 gpm, which is consistent with historical ranges.

All monitoring wells were observed to have clear to moderate clarity. No odors or sheens were noted in the purge water. All wells remained at least 80 percent of the pre-purge static water level while being purged and before being sampled. All purged water was discharged to the ground surface adjacent to its respective well.

All groundwater samples were placed in new, sterile laboratory-supplied sample containers supplied by the analytical laboratory, were labeled, and placed in an ice chest with ice pending same-day delivery to BC Laboratories, Inc. under chain-of-custody procedures. The groundwater elevations, field parameter measurements, and groundwater chemistry are in **Tables 1, 2, and 3**. Field observations of the water levels in the pond are presented in the following page in **Table A**. Elevations are based on reported average freeboard in monthly monitoring reports prepared by the City.

Table A - Freeboard and Elevation Changes (averages)

Pond	Berm Elevation	Freeboard (ft)	Pond Elevation (feet amsl)
1	278	July = 2.1 August = 2.2 September = 2.1	July = 275.9 August = 275.8 September = 275.9
2	278	July = 2.3 August = 2.3 September = 2.3	July = 275.7 August = 275.7 September = 275.7
3	278	July = 2.4 August = 2.3 September = 2.5	July = 275.6 August = 275.7 September = 275.5
4	278	July = 2.6 August = 2.6 September = 2.6	July = 275.4 August = 275.4 September = 275.4
5	278	July = 5.9 August = 8.2 September = 7.1	July = 272.1 August = 269.8 September = 270.9
6	278	July = empty August = empty September = empty	July = empty August = empty September = empty
7	278	July = empty August = empty September = empty	July = empty August = empty September = empty

5.0 GROUNDWATER ELEVATIONS AND GRADIENT

The depth to water in wells associated with the WWTP ranged from 7.81 feet in MW-08-1 to 24.50 feet in MW-3A. Depth-to-water measurements are used to calculate groundwater elevation. Measured depth to water is typically lowest (highest groundwater elevation) in Third quarter and highest (lowest groundwater elevation) in third quarter. Compared to the previous quarter, the groundwater elevations in all wells decreased an average of 3.22 feet with no wells showing increased water elevations. The greatest change in groundwater elevation was a 5.51-foot decrease at MW08-4A. Hydrographs of the site groundwater elevation data are shown in **Figure 4**.

The groundwater gradient upstream and downstream from the WWTP and adjacent to Sutter Creek is down-valley (west) and parallel to Sutter Creek. Historically, various groundwater mounds or domes have been observed under the WWTF which may be caused by the abrupt curvature of Sutter Creek in the northwestern part of the WWTF and other potential factors like ground infiltration in the eastern part of the WWTF property or potential gravel channels in the northwestern part. The mound results in a relatively flat gradient [approximately 0.002 feet per foot (ft/ft)] between MW-1A and MW-1 east of the ponds and relatively steep (approx. 0.006 ft/ft) along the southern part of the property. The average down-valley gradient is approximately 0.004 ft/ft. A map of the estimated potentiometric surface is shown in **Figure 3**.

6.0 LABORATORY ANALYTICAL RESULTS

Groundwater samples collected this quarter were analyzed by BC Laboratories, Inc. in Bakersfield, California. The laboratory data from this quarter along with the CDO required data are summarized in **Table 2**. The complete historical data set for the active groundwater monitoring wells are tabulated in **Tables 1, 2 and 3**. Existing California primary and thirdary Drinking Water Maximum Contaminant Levels (MCLs) are included in the tables and constituents occurring in concentrations greater than the MCLs are highlighted in yellow. In addition, TDS is compared to the Water Quality Goal (WQG) for Agricultural Use Protective Limits specified by the State Water Resources Control Board. Laboratory estimated values occurring below the Practical Quantitation Limits (PQL) and above the Method Detection Limit (MDL) are highlighted in blue. Laboratory certificates of analyses, quality control records, and chain-of-custody records are included in **Appendix B**.

7.0 DISCUSSION

7.1 Groundwater Elevation

The groundwater gradient indicates a west, southwest groundwater flow direction with a slope of approximately 0.004 ft/ft. As usual, groundwater elevations remain at levels highest in the Third quarter and lowest in the third. Mounding appears to be present in the northern, southeastern, and southwestern parts of the WWTF, as referenced above. Groundwater gradient directions and magnitudes this quarter are generally consistent with historical ranges.

7.2 Water Quality

Below is a description of the analytes that were tested this quarter as required for quarterly and annual monitoring as compared to MCLs. Also note that wells P-3 and P-5B (MW-5B) were also sampled and tested per CDO R5-2019-0701

Groundwater limitations for TCO and Title 22 constituents are specified in the WDR. The TCO limitation is 2.2 most probable number per milliliter (MPN/100 ml) as a 7-day median. For Title 22 constituents, laboratory results are compared to primary and secondary drinking water MCLs published by the Regional Board. TCO was detected above the MCL (2.2 MPN/100 ml) in six of the eleven wells sampled. TCO detection levels appear to have significantly and steadily decreased in samples over the past year, after a phase of a couple years when levels appeared to increase. Various wells have had sporadic TCO detection in the past, and more frequently in the wet season. *It should be noted that detectable levels and levels over the TCO limitation continue to be observed in wells MW-1 and MW-1A, which indicates that sources of bacteria may also be from upgradient sources besides the WWTF.*

Site pH results were within the agricultural beneficial use (WQO) of 6.5 standard units (SU) to 8.4 SU for all monitoring wells this quarter. The results for this event are within the pH range for the site and for most natural groundwater within the U.S.[1]

Nitrate-N concentrations in all groundwater samples were below the drinking water primary MCL of 10 milligrams per liter (mg/L). Nitrate-N concentrations appear to have normalized below MCLs since 2016. Temporal changes in groundwater nitrate-N are shown in **Figure 6**.

Total nitrogen (TN) can be a preferred parameter when evaluating nitrogen impacts from wastewater treatment plants because it includes the sum of nitrate-N and total Kjedahl nitrogen (TKN), including ammonia-N. Nitrogen can convert to any of these forms depending on redox conditions and biological activity in soil. Although there is no numeric groundwater limitation for total nitrogen, the MCL for nitrate-N was applied. The highest TN concentration detected was from Well MW-3A which was detected a total nitrogen of 4.8 mg/L. Total nitrogen in groundwater and historical effluent are plotted in **Figure 7**.

Ammonia-N was detected above the taste and odor threshold of 1.5 mg/L in MW-2 mg/L, MW-2A, MW-3, and MW-3A. The highest detection of nitrogen was found in the form of ammonia-N and was observed at wells MW-3A (4.5 mg/L ammonia-N), MW-2A (3.8 mg/L), MW-2 (2.8 mg/L), and MW-3 (1.8 mg/L). Ammonia-N was detected at very low to trace levels in all other wells although reporting limits were above the MDL but below the PQL. These results are consistent with historic values.

TDS values in all wells were below the agricultural WQG of 450 mg/L and are graphed in **Figure 10**. The TDS:EC ratios for natural waters typically range from 0.55 to 0.75.[2] The ratios in the third quarter 2021 ranged from 0.59 to 0.93 with an average ratio of 0.69.

Low (≤10 mV) oxidation-reduction potential (ORP) conditions were only present in MW-2A. This is generally consistent with historical measurements, albeit slightly more oxidized. Well P-3, which was only sample this quarter and last quarter, also had an ORP level of -15 mV. Fluctuations with time in ORP are shown in **Figure 11**.

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[1] Hem, John D., Study and Interpretation of Chemical Characteristics of Natural Water, Geological Survey Water – Supply Paper H73, p63-64, 1978.

[2] Hem, John D., Study and Interpretation of Chemical Characteristics of Natural Water, Geological Survey Water – Supply Paper H73, p. 99, 1978.

DO values are within the historical ranges for that parameter. DO values in downgradient wells MW-2, MW-2A, MW-3, MW-3A, MW-4, MW-4A, and MW-5A ranged between 0.76 mg/L (MW-3A) and 2.92 mg/L (MW-3). DO values in upgradient wells MW-1 and MW-1A, detected DO concentrations at 4.72 mg/L and 1.31 mg/L, respectively. Groundwater from wells is purged by the hand bailer method using dedicated disposable bailers.

The secondary MCL for manganese is 0.05 mg/L. Secondary MCLs are not health-based limits and this value is set at the concentration at which visible staining of plumbing fixtures can occur. Dissolved manganese exceeded the secondary limit in eight of the eleven wells sampled this quarter; this is all groundwater the samples except MW-1, MW-1A, and MW-4A. The highest dissolved manganese concentration (6.5 mg/L) was in the up-gradient/cross-gradient well MW-2 at the north side of the WWTF. This very possibly indicates that the manganese source is naturally occurring from lateritic bedrock conditions but are mobilized via oxidizing conditions along Sutter Creek. A 12-year upward manganese trend has been observed in MW-4 located down gradient from Pond 7 but it appears to have stabilized. A previous downward trend in MW-5A that started trending upward in December 2015 appears to also be normalizing. Total and dissolved manganese concentrations in groundwater versus time are plotted in **Figure 8**.

The secondary MCL for iron is 0.3 mg/L. Iron was not detected in any of the groundwater samples collected this quarter, including P-3 and P-5B. Since liners have been installed into ponds, iron levels appear to have become almost undetectable across the entire facility. Total and dissolved iron concentrations in groundwater versus time are plotted in **Figure 9**.

An assessment of analytical results from wells P-5B and P-3 does not indicate any conditions atypical of surrounding wells that have been monitored regularly.

The CDO specifies concentration limits for dissolved manganese and iron at MW-2, MW-2A, MW-3, and MW-3A. The October 2015, 2016, and 2017 Constituent Concentration Levels were not reached in time; anticipating this, the City submitted the 2020 Capacity Expansion Completion Report with information intended to meet the requirements on page 16 of the CDO Item 6B. In 2017, the City began draining and removing sludge from Ponds 1 through 4 in anticipating of lining these ponds. In the fourth quarter of 2019, the lining of the ponds was completed. The City is currently in the process of resolving the CDO. Long-term historic data as well as local hydrogeologic conditions indicate that the allegedly elevated manganese levels could be due to or related to naturally-existing conditions. **Table B**, **Table C**, and **Table D** are presented on the following page. These tables show the current concentrations in comparison with the

2015, 2016, and 2017 concentration limits.

Table B: 2015 Constituent Concentration Limits

Well	Constituent	Concentration Limit (µg/L) to be met by 30 October 2015	Third Quarter 2021 Concentration (µg/L)
MW-2	Diss. Manganese	2,930	**6,500**
MW-2A	Diss. Manganese	2,560	**3,200**
MW-3	Diss. Manganese	4,200	3,600
MW-3A	Diss. Manganese	5,500	5,300
MW-2	Diss. Iron	1,940	<30
MW-2A	Diss. Iron	10,820	<30
MW-3	Diss. Iron	<300	<30
MW-3A	Diss. Iron	4,000	<30

Bold values exceed the October 30, 2015 concentration limits

Table C: 2016 Constituent Concentration Limits

Well	Constituent	Concentration Limit (µg/L) to be met by 30 October 2016	Third Quarter 2021 Concentration (µg/L)
MW-2	Diss. Manganese	1,850	**6,500**
MW-2A	Diss. Manganese	1,720	**3,200**
MW-3	Diss. Manganese	3,900	3,600
MW-3A	Diss. Manganese	4,500	**5,300**
MW-2	Diss. Iron	1,760	<30
MW-2A	Diss. Iron	9,020	<30
MW-3	Diss. Iron	<300	<30
MW-3A	Diss. Iron	3,500	<30

Bold values exceed the October 30, 2016 concentration limits

Table D: 2017 Constituent Concentration Limits

Well	Constituent	Concentration Limit (µg/L) to be met by 30 October 2017	Third Quarter 2021 Concentration (µg/L)
MW-2	Diss. Manganese	770	**6,500**
MW-2A	Diss. Manganese	880	**3,200**
MW-3	Diss. Manganese	3,600	3,600
MW-3A	Diss. Manganese	3,500	**5,300**
MW-2	Diss. Iron	1,460	<30
MW-2A	Diss. Iron	7,220	<30
MW-3	Diss. Iron	<300	<30
MW-3A	Diss. Iron	3,000	<30

Bold values exceed the October 30, 2017 concentration limits

8.0 CONCLUSIONS

-Various analytes that were tested as required for annual and quarterly monitoring were detected above MCLs.

-Coliform levels appear to have fallen back down to lower levels within the historic range. The contaminant appears to be naturally present in the groundwater both upgradient and downgradient.

- Groundwater elevations for the WWTP wells in the Third quarter of 2021 averaged approximately 3.22 feet lower than the previous quarter.

- The secondary MCLs for dissolved manganese was exceeded in wells MW-2, MW-2A, MW-3, MW-3A, MW-4 and MW-5A. This is consistent with historic data.

- The secondary MCLs for dissolved iron were not exceeded in any wells. The trend has decreased and stabilized at trace to non-detectable levels.

- Secondary MCL for ammonia-N (1.5 mg/L) were exceeded in four wells (MW-2, MW-2A, MW-3, and MW-3A). MW-2 appears to be on a decreasing trend, which may be due to the recently lined ponds and emerging oxidizing conditions.

- TDS concentrations were below the agricultural WQG in all wells.

- The nitrate-N concentrations are below the primary MCL of 10 mg/L in all wells. Historically, the highest nitrate-N concentrations are in upgradient well MW-1A but they appear to have remained relatively low and stable in recent years.

- DO values in downgradient wells MW-2, MW-2A, MW-3, MW-3A, MW-4, MW-4A, and MW-5A ranged between 0.76 mg/L (MW-3A) and 2.92 mg/L (MW-3). These levels are within historical ranges.

- ORP values this quarter are similar to historical values. Lowest (≤10 mV) ORP conditions were present deeper monitoring wells (MW-2A and MW-3A). Well MW-2A was the only well were negative ORP levels were observed. All other wells show positive ORP results. This is consistent with historic ranges.

9.0 RECOMMENDATIONS

EcoUrban Associates recommends the following:

- Change sampling frequency from a quarterly basis to a semi-annual basis due to consistent trends that been established and revise the existing MRP No. R5-2013-0022 (Rev1) accordingly.

- CDO No. R5-2014-0157 should be lifted due to evidence indicating that manganese and iron levels are naturally-occurring.

-CDO No. R5-2019-0701 will be fulfilled and P-3 and P-5B will not require purging, sampling, and analysis in subsequent sampling events.

10.0 LIMITATIONS AND SIGNATURE

This report has been prepared under the direct supervision of a Professional Geologist in the State of California. The standard of care for all services performed or furnished by EcoUrban Associates is the care and skill ordinarily used by members of the environmental profession practicing under similar conditions at the same time in the same locality. EcoUrban Associates is not responsible for the accuracy and completeness of information collected and developed by others.

This Report was prepared for the sole use of the City and may not be used or relied upon by any other person(s) without the express written consent and authorization of the City and EcoUrban Associates. If any changes are made or errors found in the information used for this Report, the interpretations and conclusions contained herein shall not be considered valid unless the changes or errors are reviewed EcoUrban Associates and either appropriately modified or re-approved in writing. Any questions regarding the content of this document should be directed to the City Manager for Ione, at (209) 274-2412, extension 111, or to Christopher E. Strong of EcoUrban Associates at (209) 487-4802.

Respectfully submitted,

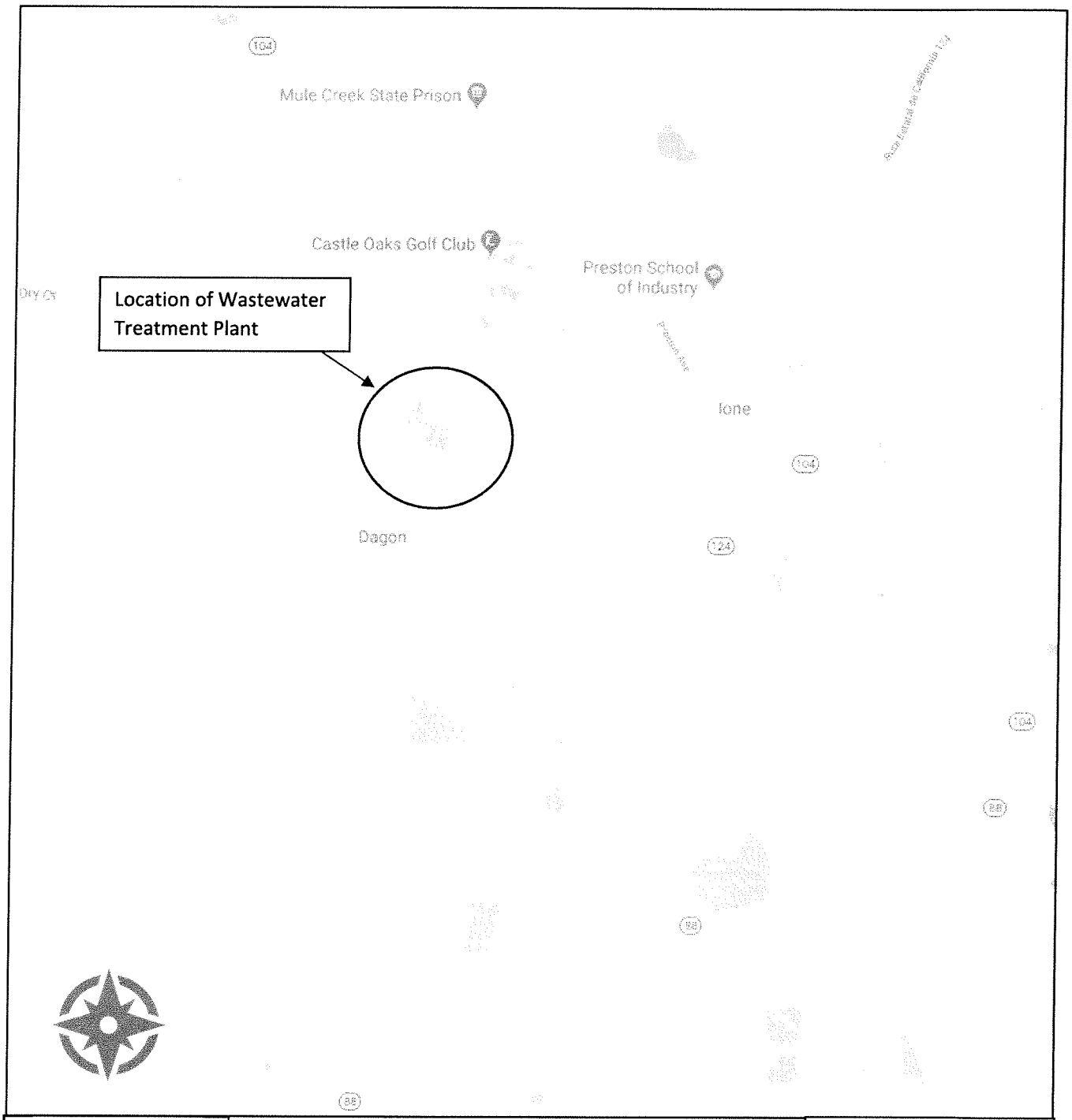
EcoUrban Associates

Christopher E. Strong, PG #8070
Senior Geologist

PROFESSIONAL GEOLOGIST
CHRIS E. STRONG
No. 8070
STATE OF CALIFORNIA

FIGURES

Site Maps and Time-Trend Plots



EcoUrban Associates
PO Box 411
Ione, CA 95640
(209) 487-4802

Figure 1

Site Vicinity Map

City of Ione

Wastewater Treatment System

Ione, CA

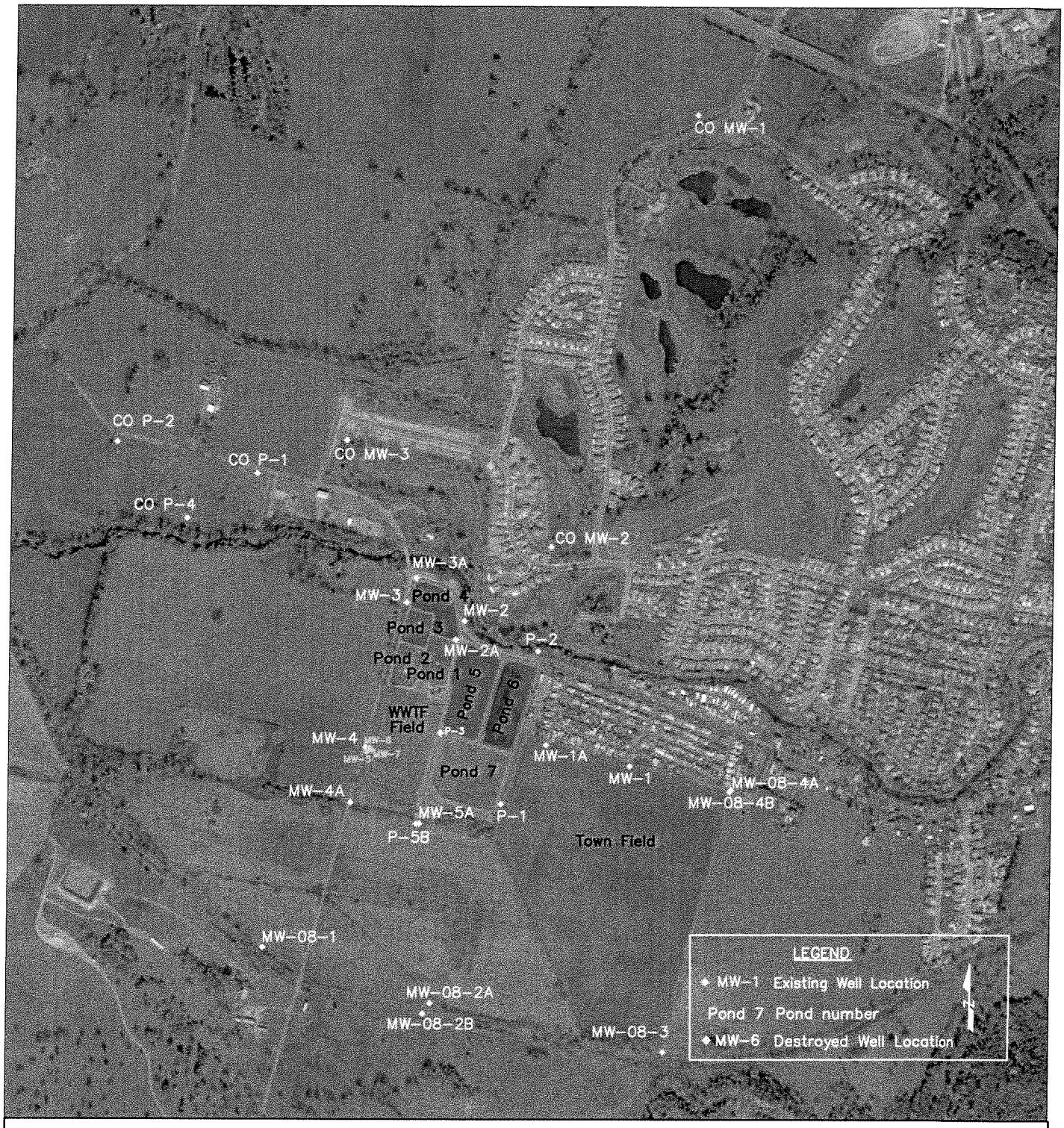
Project No.: AMA.104.01

Drawn by: CES

Dated: 04/16/18

Scale: 1" = 3,000'

Rev'd by: CES



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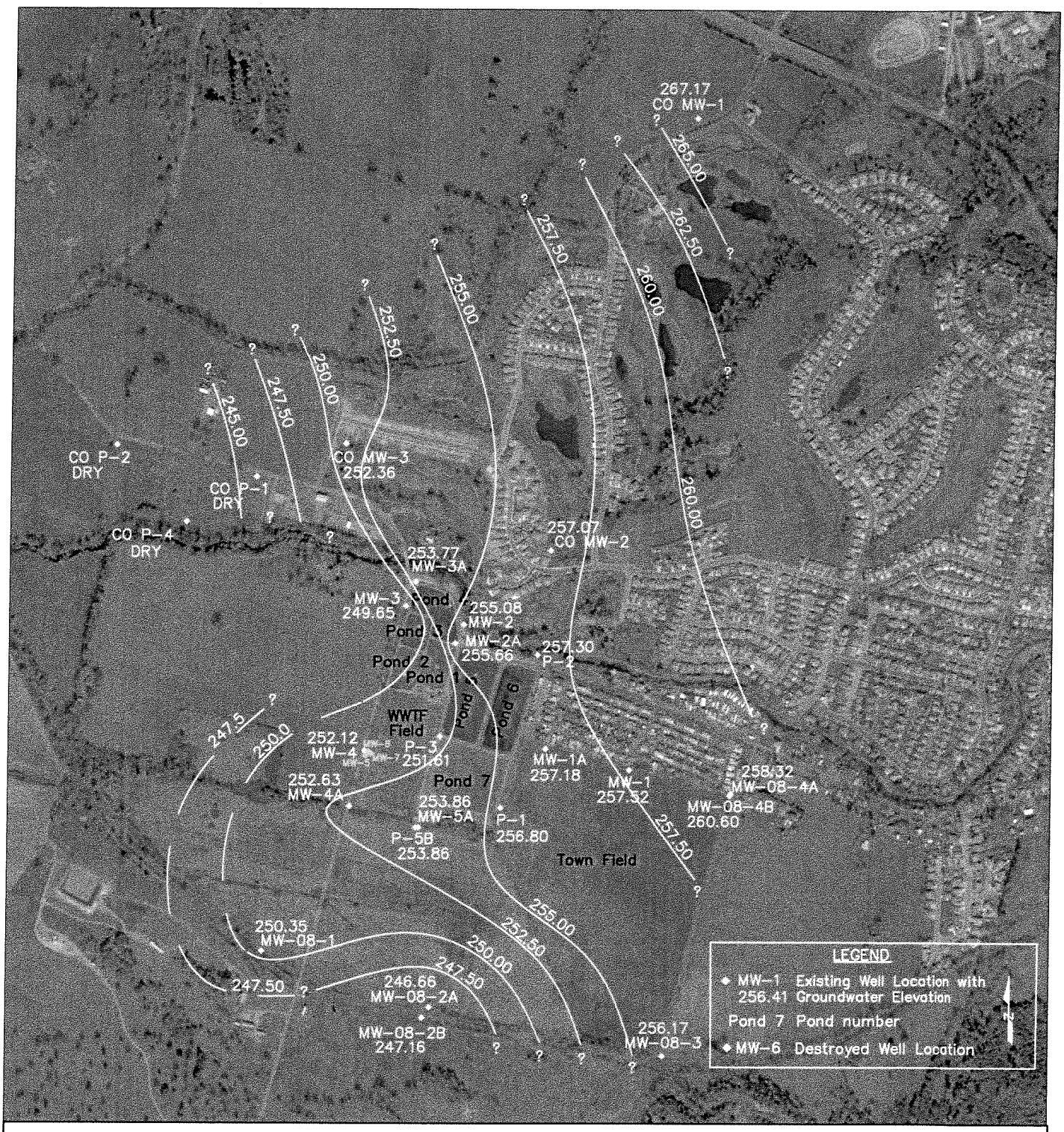
EcoUrban Associates
PO Box 411
Ione, CA 95640
(209)487-4802

Figure 2
Monitoring Well Location Map
Third Quarter 2021
Wastewater Treatment Facility
City of Ione
Ione, California

Project No.:	AMA.104.01
Drawn by:	CES
Dated:	10/19/21
Scale:	~1"=1,000'
Rev'd by:	CES



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EcoUrban Associates
PO Box 411
Ione, CA 95640
(209)487-4802

Figure 3
Groundwater Gradient Map
Third Quarter 2021
Wastewater Treatment Facility
City of Ione
Ione, California

Project No.:	AMA.104.01
Drawn by:	CES
Dated:	10/20/21
Scale:	~1"=1,000'
Rev'd by:	CES

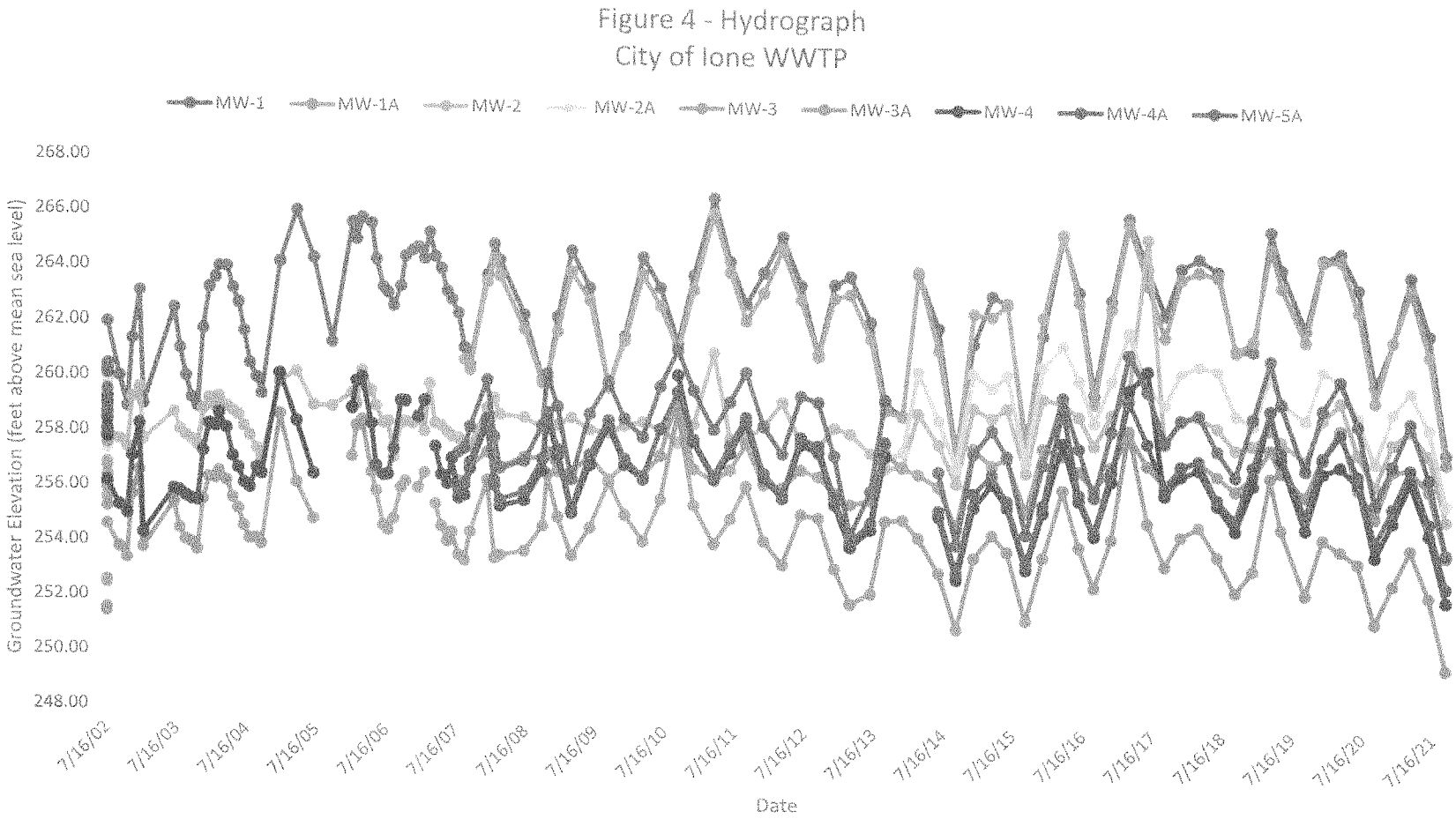


Figure 4 - Hydrograph
City of Ione WWTP
MW-1
MW-1A
MW-2
MW-2A
MW-3
MW-3A
MW-4
MW-4A
MW-5A
Groundwater Elevation (feet above mean sea level)
268.00
266.00
264.00
262.00
260.00
258.00
256.00
254.00
252.00
250.00
248.00
7/16/02
7/16/03
7/16/04
7/16/05
7/16/06
7/16/07
7/16/08
7/16/09
7/16/10
7/16/11
7/16/12
7/16/13
7/16/14
7/16/15
7/16/16
7/16/17
7/16/18
7/16/19
7/16/20
7/16/21
Date

Figure 5 - Total Coliform Organism in Groundwater
City of Ione WWTP

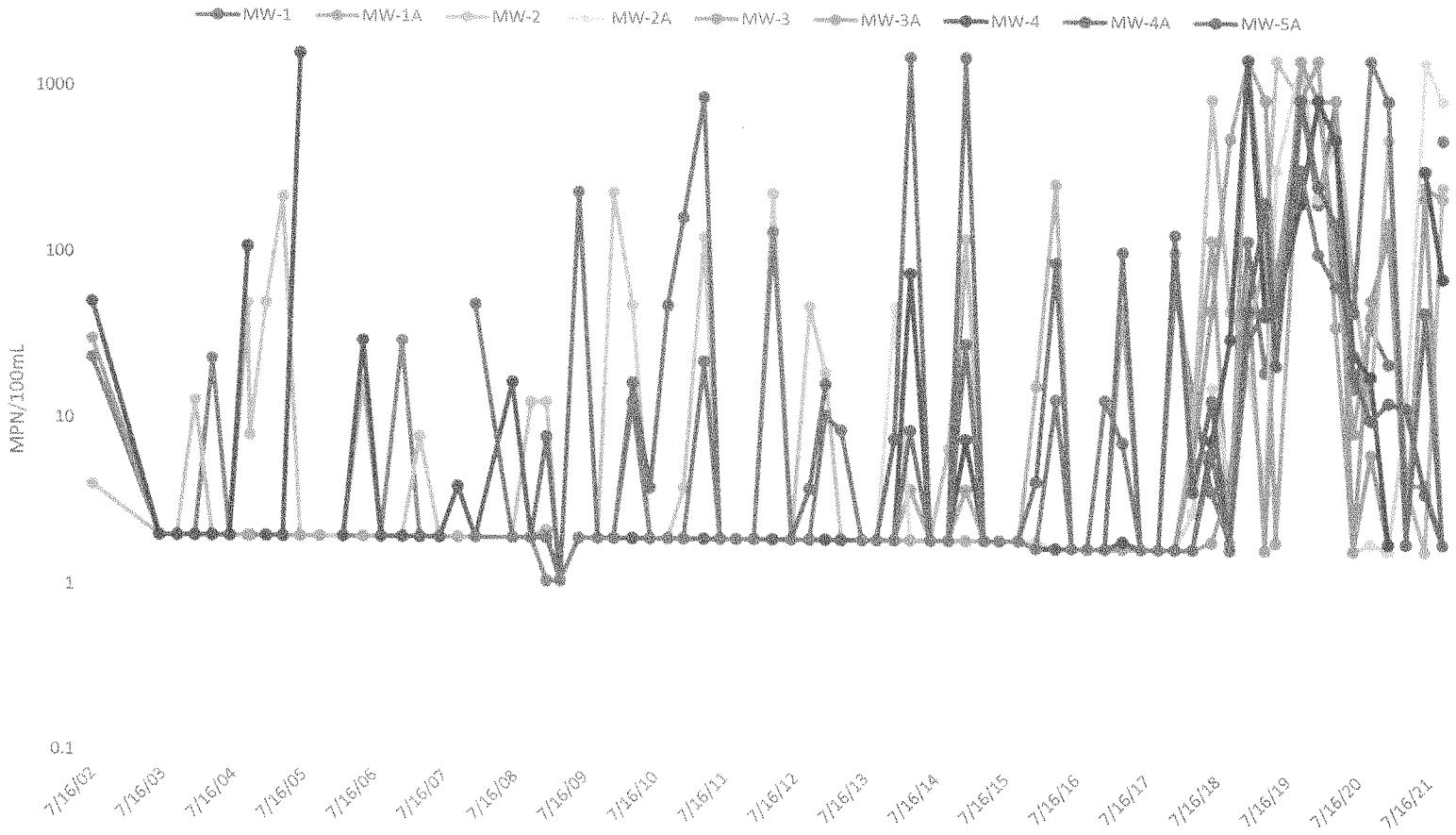


Figure 6 - Nitrate as Nitrogen
City of ione WWTP

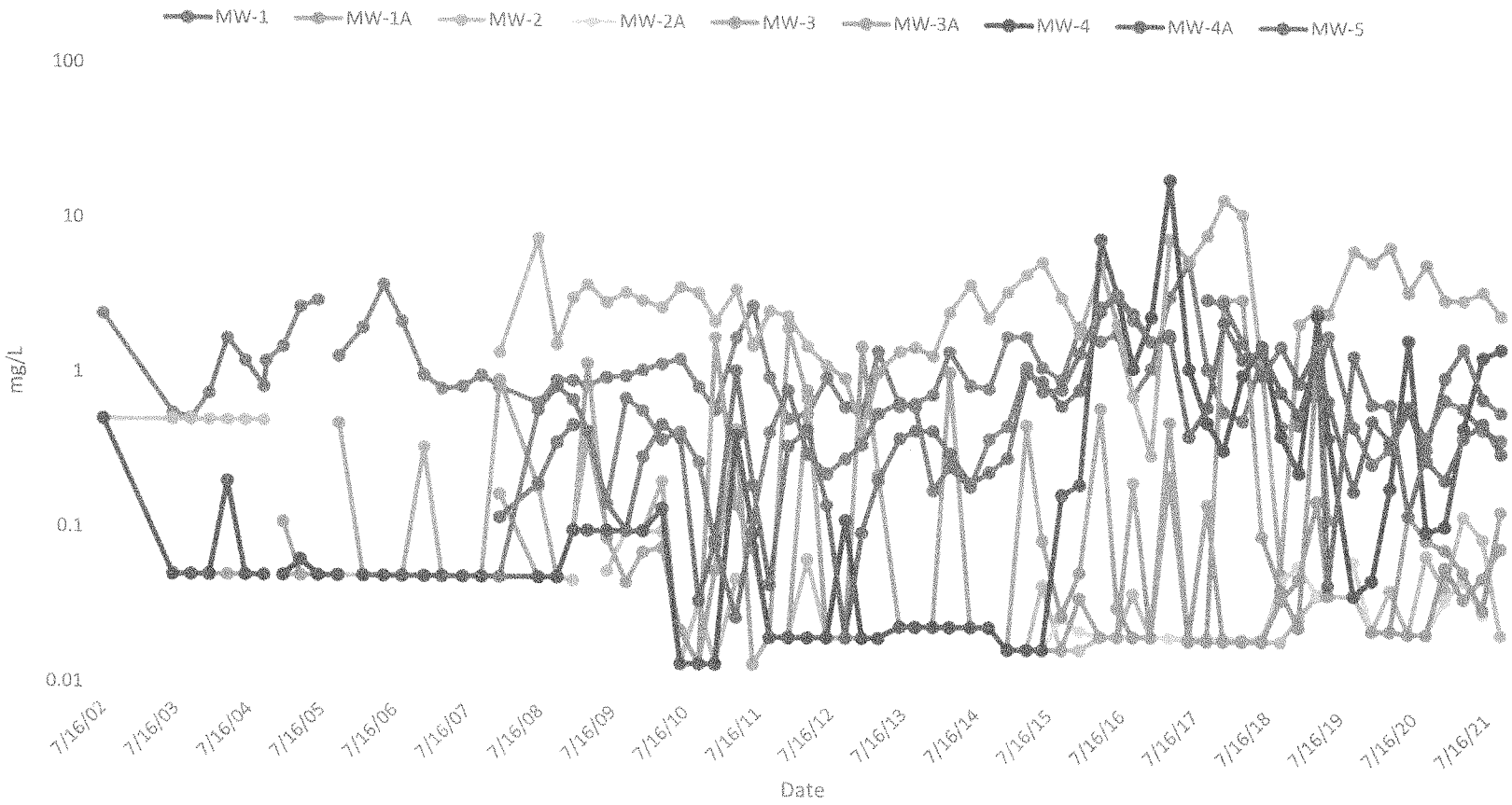


Figure 7 - Total Nitrogen in Groundwater
City of Ione WWTP

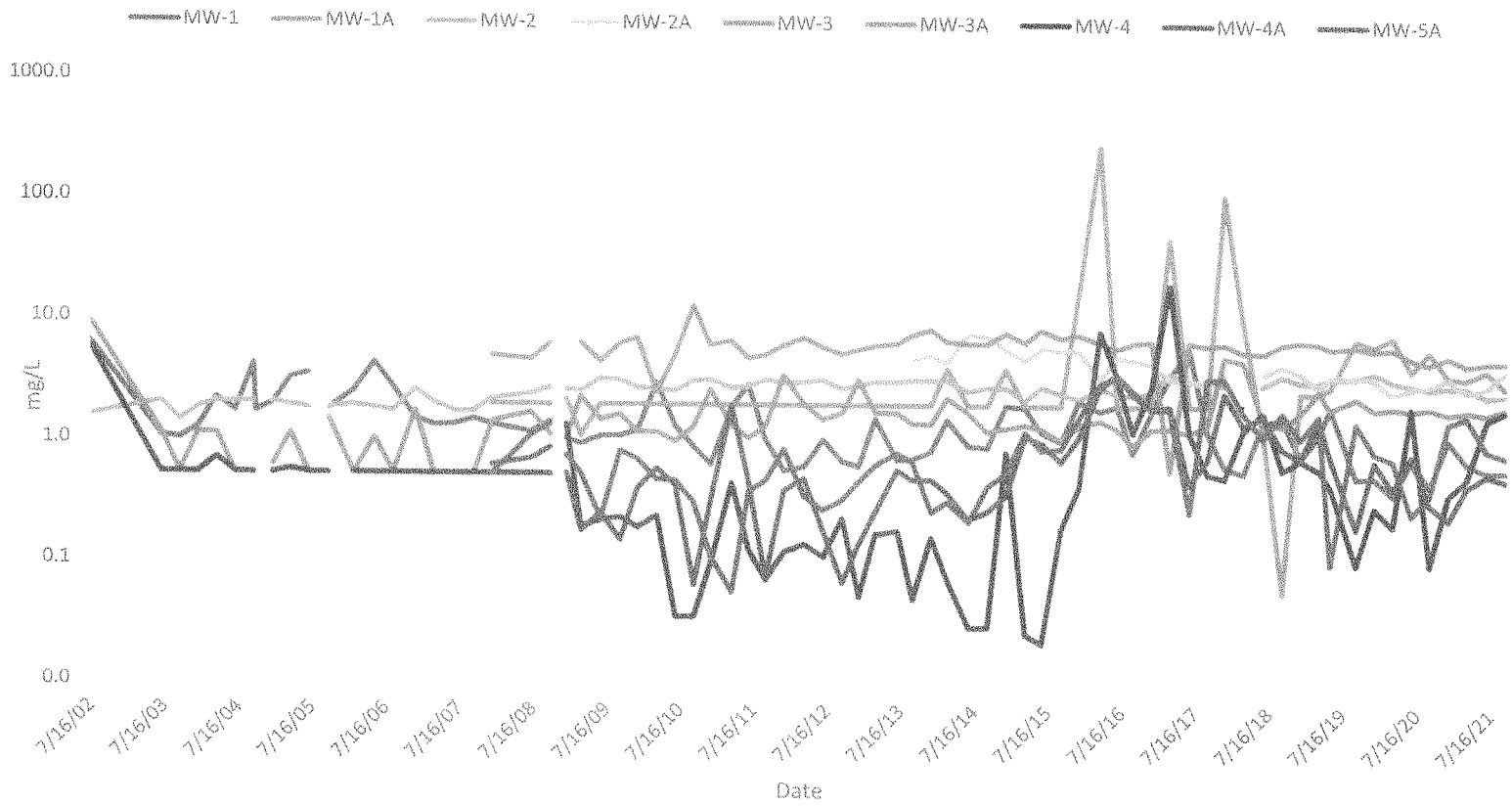


Figure 8 - Total and Dissolved Manganese in Groundwater
City of Ione WWTP

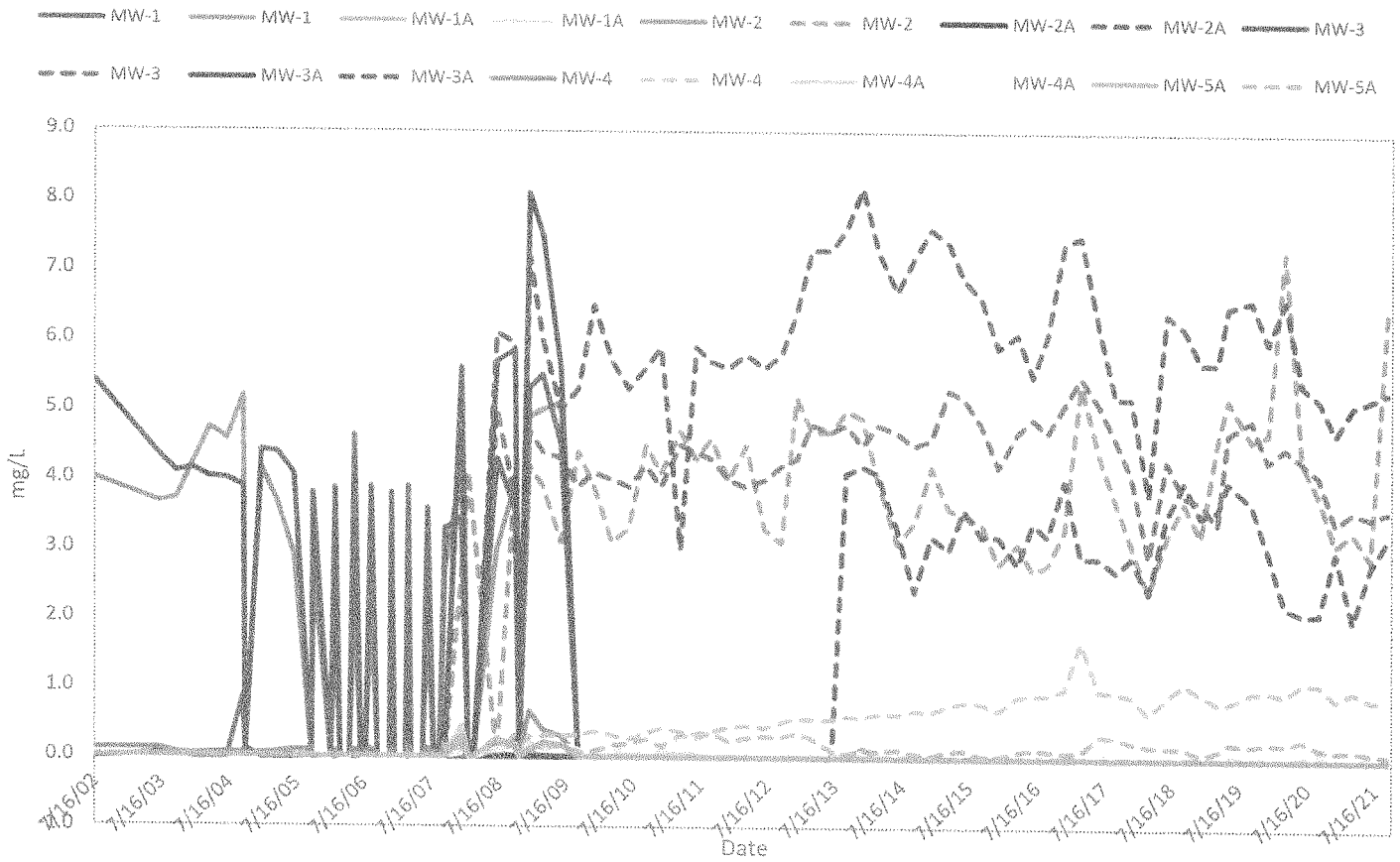


Figure 9 - Total and Dissolved Iron in Groundwater
City of Ione WWTP

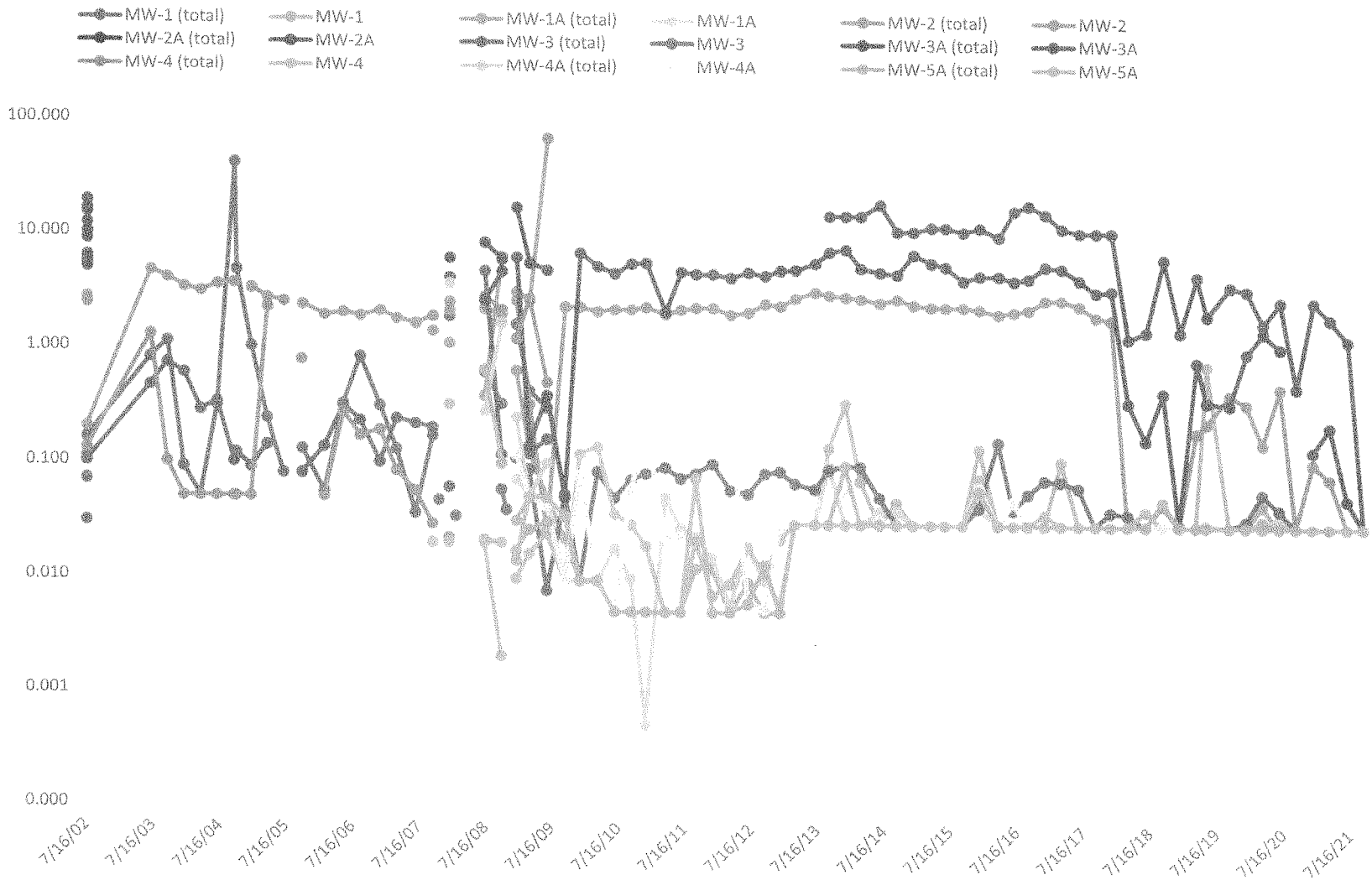


Figure 10 - Total Dissolved Solids in Groundwater
City of Ione WWTS

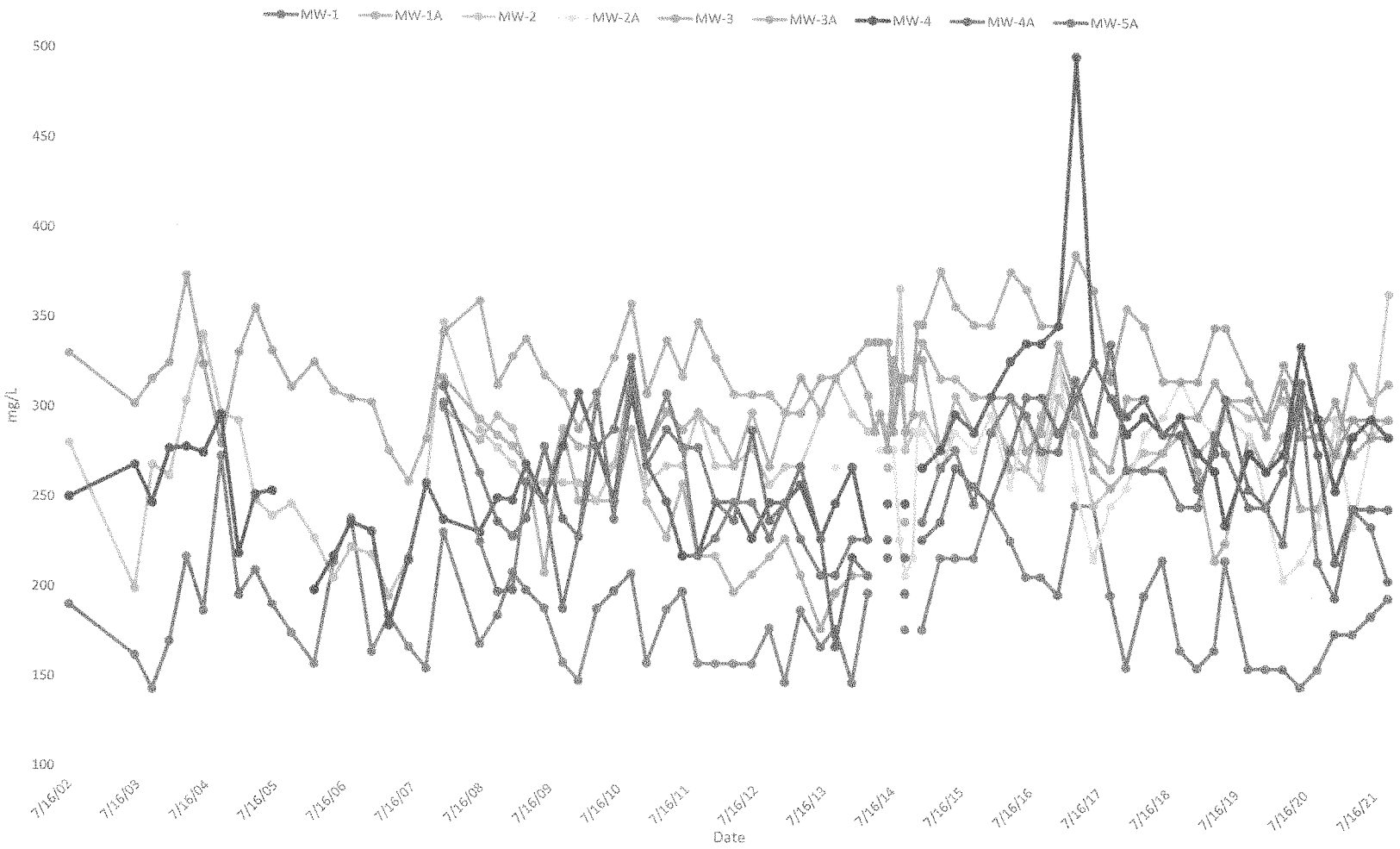
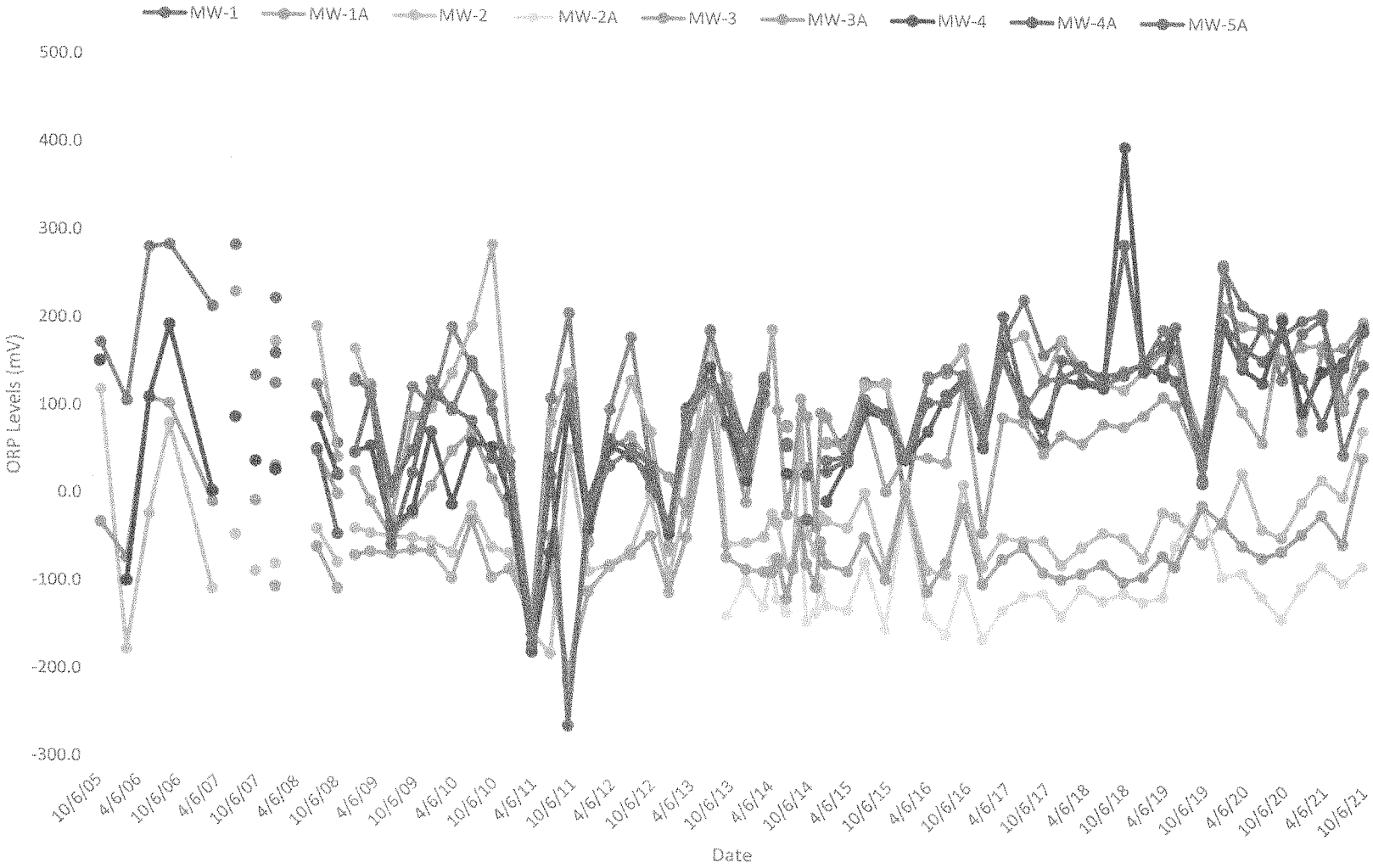


Figure 11 - Oxidation-Reduction Potential in Groundwater
City of Ione WWTP



TABLES

Historic Groundwater Data

Table 1

Historical Groundwater Quality Data
City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
Background Wells												
MW1	274.17	7/16/02	12.25	261.92	274.17			6.90				
MW1		9/18/02	14.21	259.96	274.17							
MW1		10/29/02	15.31	258.86	274.17							
MW1		11/22/02	12.85	261.32	274.17							
MW1		12/31/02	11.11	263.06	274.17							
MW1		1/21/03	15.21	258.96	274.17							
MW1		6/30/03	11.72	262.45	274.17			6.80				
MW1		7/31/03	13.19	260.98	274.17							
MW1		8/31/03	14.19	259.98	274.17							
MW1		9/30/03	14.98	259.19	274.17			6.90				
MW1		10/31/03	15.30	258.87	274.17							
MW1		11/30/03	12.47	261.70	274.17							
MW1		12/31/03	10.97	263.20	274.17			6.80				
MW1		1/31/04	10.62	263.55	274.17							
MW1		2/20/04	10.21	263.96	274.17							
MW1		3/31/04	10.22	263.95	274.17			6.80				
MW1		5/2/04	11.01	263.16	274.17							
MW1		6/1/04	11.53	262.64	274.17							
MW1		6/30/04	12.55	261.62	274.17			6.80				
MW1		7/31/04	13.72	260.45	274.17							
MW1		9/4/04	14.24	259.93	274.17							
MW1		10/1/04	14.82	259.35	274.17			6.90				
MW1		10/12/04		0.00				6.80				
MW1		1/4/05	10.03	264.14	274.17			6.80				
MW1		4/1/05	8.15	266.02	274.17			6.90				
MW1		6/30/05	9.89	264.28	274.17			6.80				
MW1		10/6/05	12.93	261.24	274.17							
MW1		10/11/05		0.00		15	18.4	6.80	310	3.0	172.0	
MW1		1/17/06	8.58	265.59	274.17							
MW1		2/9/06	9.21	264.96	274.17	8	17.5	6.90	320	5.7	106.0	
MW1		3/10/06	8.42	265.75	274.17							
MW1		4/29/06	8.62	265.55	274.17							
MW1		5/23/06	9.92	264.25	274.17	14	16.3	6.80	330	13.4	281.0	
MW1		6/30/06	10.93	263.24	274.17							
MW1		7/25/06	11.13	263.04	274.17							
MW1		8/24/06	11.61	262.56	274.17	12	17.8	6.80	340	5.6	284.0	
MW1		9/29/06	10.89	263.28	274.17							
MW1		10/24/06	9.81	264.36	274.17							
MW1		11/30/06	9.59	264.58	274.17							

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				*6.5-8.4*	*700*			
MW1	Continued	12/12/06		0.00				6.80				
MW1	274.17	12/29/06	9.48	264.69	274.17							
MW1		1/31/07	9.89	264.28	274.17							
MW1		2/27/07	8.93	265.24	274.17							
MW1		3/13/07		0.00		14	17.1	6.90	95 Q	6.7	214	
MW1		3/30/07	9.82	264.35	274.17							
MW1		4/30/07	10.26	263.91	274.17							
MW1		5/31/07	11.06	263.11	274.17							
MW1		6/25/07	11.36	262.81	274.17	8	17.5	6.90	85 Q	8.0	284	
MW1		7/29/07	11.85	262.32	274.17							
MW1		8/30/07	13.10	261.07	274.17							
MW1		9/27/07	13.72	260.45	274.17	8	18.9	6.90	300	7.2	136	
MW1		12/27/07	10.46	263.71	274.17	8	17.8	6.80	370	4.2	127	
MW1		2/2/08	9.34	264.83	274.17							
MW1		3/2/08	9.92	264.25	274.17							
MW1		7/7/08	11.89	262.28	274.17	7	17.24	7.04	291	7.9	126	
MW1		10/10/08	14.22	259.95	274.17	5	18.56	6.47	261	6.0	59.2	
MW1		11/5/08	14.21	259.96	274.17							
MW1		12/29/08	11.96	262.21	274.17	7	18.22	6.70	298	3.4	130	
MW1		3/11/09	9.56	264.61	274.17	8	14.28	6.86	292	5.4	126.3	191
MW1		6/16/09	10.89	263.28	274.17	8	17.12	6.75	284	5.3	3.0	185
MW1		9/22/09	14.48	259.69	274.17	5	17.7	6.11	274	5.98	124.3	178
MW1		12/15/09	12.64	261.53	274.17	8	17.9	7.08	256	2.90	103.7	166
MW1		3/22/10	9.78	264.39	274.17	8	14.7	6.81	358	7.42	192.3	235
MW1		6/22/10	10.87	263.30	274.17	8	16.5	6.73	331	7.95	148.0	216
MW1		9/22/10	12.91	261.26	274.17	6	17.20	6.78	304	4.68	115.2	198
MW1		12/13/10	10.44	263.73	274.17	8	16.78	6.97	290	2.93	-12.6	189
MW1		3/29/11	7.61	266.56	274.17	9	16.03	6.75	311	5.81	-136.1	202
MW1		6/22/11	9.91	264.26	274.17	8	16.39	6.85	286	6.47	112.8	106
MW1		9/13/11	11.45	262.72	274.17	7	17.28	6.59	234	4.11	210.1	152
MW1		12/14/11	10.31	263.86	274.17	8	16.72	7.65	264	3.39	-51.6	171
MW1		3/21/12	8.99	265.18	274.17	8	16.09	6.31	248	5.34	100.8	161
MW1		6/26/12	10.75	263.42	274.17	8	16.40	6.73	247	4.65	183.0	161
MW1		9/27/12	13.26	260.91	274.17	6	17.31	6.28	246	3.24	32.0	160
MW1		12/19/12	10.72	263.45	274.17	8	17.14	7.12	234	2.84	-54.9	152
MW1		3/11/13	10.42	263.75	274.17	9	16.38	6.69	290	5.63	87.0	189
MW1		6/27/13	12.05	262.12	274.17	7	16.86	7.29	255	5.28	130.0	166
MW1		9/12/13	14.99	259.18	274.17	10	17.98	6.65	267	4.86	127.9	173
MW1		12/11/13	15.45	258.72	274.17	5	18.41	6.76	275	3.36	50.6	178
MW1		3/4/14	10.29	263.88	274.17	8	16.60	7.40	321	6.46	130.3	209
MW1		6/17/14	12.25	261.92	274.17	7	17.44	6.74	315	6.52	84.5	205
MW1		9/18/14	16.82	257.35	274.17	5	18.46	6.75	286	6.81	35.7	186
MW1		12/18/14	12.82	261.35	274.17	6	18.76	6.77	258	3.52	65.0	167
MW1		3/24/15	11.08	263.09	274.17	8	16.62	6.68	344	7.63	69.8	223
MW1		6/11/15	11.34	262.83	274.17	8	17.49	6.53	327	7.45	135.0	212
MW1		9/17/15	16.33	257.84	274.17	5	19.13	6.61	331	6.00	133.8	215

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
MW1	continued	12/16/15	12.49	261.68	274.17	9	19.41	6.70	380	2.69	45.7	247
MW1	274.17	3/29/16	8.87	265.30	274.17	8	17.16	6.65	357	6.87	141.9	232
MW1		6/21/16	10.89	263.28	274.17	8	17.52	6.53	331	7.56	145.9	215
MW1		9/8/16	14.62	259.55	274.17	9	18.60	6.46	298	4.85	172.4	193
MW1		12/8/16	11.17	263.00	274.17	8	18.4	6.70	298	3.89	88.9	194
MW1		3/9/17	8.19	265.98	274.17	9	16.7	6.70	357	5.10	183.9	232
MW1		6/14/17	10.03	264.14	274.17	10	16.4	6.64	366	5.43	231.0	237
MW1		9/13/17	11.70	262.47	274.17	7	17.4	6.72	297	3.87	168.3	193
MW1		12/5/17	10.00	264.17	274.17	8	17.3	6.79	271	2.41	185.0	176
MW1		3/9/18	9.65	264.52	274.17	9	16.8	6.87	340	3.8	140	170
MW1		6/15/18	10.09	264.08	274.17	9	18.0	6.81	337	3.7	135	168
MW1		9/17/18	12.97	261.20	274.17	7	19.5	6.78	328	7.9	146	164
MW1		12/17/18	12.02	262.15	274.17	7.5	19.5	6.83	295	2.7	160	145
MW1		3/18/19	8.63	265.54	274.17	9	18.1	6.81	270	5.0	198	192
MW1		5/13/19	10.01	264.16	274.17	8.5	17.6	7.64	285	4.5	175	202
MW1		9/16/19	12.18	261.99	274.17	7.5	19.2	6.76	260	4.5	28	181
MW1		12/16/19	9.64	264.53	274.17	8.5	16.8	6.88	258	3.82	269	183
MW1		3/16/20	9.40	264.77	274.17	9	15.9	6.98	261	4.87	227	185
MW1		6/16/20	10.69	263.48	274.17	8	18.1	6.92	246	5.24	213	175
MW1		9/14/20	14.20	259.97	274.17	7	19.3	6.86	243	3.17	143	174
MW1		12/15/20	12.58	261.59	274.17	7	18.0	7.01	292	3.94	196	207
MW1		3/17/21	10.23	263.94	274.17	8.5	16.2	7.03	301	8.04	213	213
MW1		6/22/21	12.33	261.84	274.17	7.5	18.4	6.92	255	6.78	119	181
MW1		9/21/21	16.65	257.52	274.17	5.5	19.7	6.71	272	4.72	161	194
MW1A	274.09	8/30/07	13.46	260.63	274.09	260.63						
MW1A		9/24/07	13.82	260.27	274.09	260.27						
MW1A		10/31/07	12.98	261.11	274.09	261.11						
MW1A		11/29/07	11.33	262.76	274.09	262.76						
MW1A		12/27/07	10.63	263.46	274.09	22	18.2	6.83	770 Q	0.5	175	
MW1A		2/2/08	9.82	264.27	274.09							
MW1A		3/2/08	10.41	263.68	274.09							
MW1A		7/7/08	12.33	261.76	274.09	14	18.67	6.51	488	4.14	192	
MW1A		10/10/08	14.27	259.82	274.09	18	17.97	6.59	427	3.24	43	
MW1A		11/5/08	14.23	259.86	274.09							
MW1A		12/29/08	12.41	261.68	274.09	14	18.70	6.64	445	2.96	168	
MW1A		3/11/09	10.24	263.85	274.09	15	17.71	6.77	408	2.51	114.5	265
MW1A		6/16/09	11.28	262.81	274.09	16	18.33	6.67	350	4.06	-26.7	227
MW1A		9/22/09	14.42	259.67	274.09	14	18.13	6.81	448	2.69	89.8	291
MW1A		12/15/09	12.72	261.37	274.09	19	17.96	7.29	465	2.63	99.8	304
MW1A		3/22/10	10.34	263.75	274.09	16	18.36	6.85	407	3.49	140.0	265
MW1A		6/22/10	11.48	262.61	274.09	15	17.59	6.68	411	5.28	194.0	268
MW1A		9/22/10	13.05	261.04	274.09	14	17.52	6.71	387	3.01	287.0	252
MW1A		12/13/10	10.87	263.22	274.09	15	17.38	6.94	401	2.13	53.2	261
MW1A		3/29/11	8.11	265.98	274.09	17	17.00	6.75	368	4.45	-147.8	239
MW1A		6/22/11	10.23	263.86	274.09	16	17.55	6.05	376	1.65	85.2	244
MW1A		9/13/11	11.97	262.12	274.09	15	17.36	6.59	297	2.17	142.1	193
MW1A		12/14/11	10.96	263.13	274.09	15	17.28	6.54	317	2.87	-27.8	206
MW1A		3/21/12	9.38	264.71	274.09	16	17.13	6.57	293	2.98	60.9	190
MW1A		6/26/12	11.20	262.89	274.09	15	17.12	6.42	336	2.01	133.7	218
MW1A		9/27/12	13.27	260.82	274.09	14	16.89	6.41	362	1.82	75.8	236
MW1A		12/19/12	11.14	262.95	274.09	15	17.31	6.96	392	1.25	-60.1	255
MW1A		3/11/13	10.99	263.10	274.09	15	17.14	6.67	318	2.37	62.6	207

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
MW1A		6/27/13	12.59	261.50	274.09	14	17.10	6.79	303	4.31	103.3	197
MW1A		9/12/13	15.19	258.90	274.09	14	17.39	6.76	309	4.00	139.3	201
MW1A		12/12/13	15.40	258.69	274.09	13	16.97	6.90	318	2.11	58.4	204
MW1A		3/4/14	10.15	263.94	274.09	16	17.23	6.83	359	4.28	139.7	233
MW1A		6/17/14	12.98	261.11	274.09	15	17.49	6.65	408	3.19	82.4	266
MW1A		9/18/14	16.84	257.25	274.09	12	17.55	6.79	342	3.05	26.5	222
MW1A		12/18/14	11.64	262.45	274.09	15	19.01	6.63	488	3.63	63.6	317
MW1A		3/24/15	11.75	262.34	274.09	16	18.03	6.67	450	2.82	61.7	293
MW1A	continued	6/11/15	11.31	262.78	274.09	20	18.16	6.41	457	2.06	130.4	297
MW1A	274.09	9/17/15	16.46	257.63	274.09	13	18.12	6.70	452	0.58	132.3	294
MW1A		12/16/15	11.75	262.34	274.09	15	19.48	6.62	481	3.69	47.9	313
MW1A		3/29/16	8.73	265.36	274.09	17	16.69	6.66	440	1.15	138.3	286
MW1A		6/21/16	11.18	262.91	274.09	15	15.70	6.27	433	1.21	147.9	284
MW1A		9/8/16	14.85	259.24	274.09	14	16.36	6.77	475	0.47	174.9	308
MW1A		12/8/16	11.41	262.68	274.09	15	18.1	6.59	495	2.23	95.2	322
MW1A		3/9/17	8.35	265.74	274.09	17	17.5	6.66	456	2.32	177.8	295
MW1A		6/14/17	10.54	263.55	274.09	17	17.6	6.66	439	0.48	190.5	283
MW1A		9/13/17	12.43	261.66	274.09	14	17.8	6.71	442	2.49	136.7	287
MW1A		12/5/17	10.33	263.76	274.09	16	18.9	6.67	480	2.03	185.9	312
MW1A		3/9/18	10.04	264.05	274.09	16	17.9	6.77	578	3.40	154	287
MW1A		6/15/18	10.21	263.88	274.09	16	18.2	6.64	530	3.20	137	265
MW1A		9/17/18	12.94	261.15	274.09	15	19.2	6.79	577	7.30	129	287
MW1A		9/17/18	12.94	261.15	274.09	15	19.2	6.79	577	7.30	129	287
MW1A		12/17/18	12.51	261.58	274.09	15	18.6	6.79	505	1.10	150	250
MW1A		3/18/19	9.19	264.90	274.09	16.5	18.7	6.77	310	1.0	175	219
MW1A		5/13/19	10.57	263.52	274.09	16	18.7	8.02	347	3.3	164	246
MW1A		9/16/19	12.53	261.56	274.09	10	21.1	6.65	425	5.2	74	300
MW1A		12/16/19	9.63	264.46	274.09	16.5	19.3	6.74	475	1.40	225	336
MW1A		3/16/20	9.60	264.49	274.09	16.5	17.0	6.84	474	2.40	203	337
MW1A		6/16/20	11.43	262.66	274.09	15.5	20.6	6.84	374	1.91	201	263
MW1A		9/14/20	14.69	259.40	274.09	14.0	19.9	6.80	400	1.81	166	282
MW1A		12/15/20	12.50	261.59	274.09	15.0	18.9	6.85	480	7.30	181	341
MW1A		3/17/21	10.64	263.45	274.09	16.0	17.4	6.92	482	4.13	183	339
MW1A		6/22/21	13.02	261.07	274.09	16.5	20.6	6.76	457	2.66	109	324
MW1A		9/21/21	16.91	257.18	274.09	13.0	20.8	6.67	409	1.31	199	290
WWTP Wells												
MW2	272.37	7/16/02	14.35	258.02	272.37							
MW2		9/18/02	14.71	257.66	272.37							
MW2		10/29/02	15.00	257.37	272.37							
MW2		11/22/02	13.18	259.19	272.37							
MW2		12/31/02	12.82	259.55	272.37							
MW2		1/21/03	14.72	257.65	272.37							
MW2		6/30/03	13.70	258.67	272.37							
MW2		7/31/03	14.33	258.04	272.37							
MW2		8/31/03	14.56	257.81	272.37							
MW2		9/30/03	14.71	257.66	272.37							
MW2		10/31/03	14.92	257.45	272.37							
MW2		11/30/03	13.60	258.77	272.37							
MW2		12/31/03	13.18	259.19	272.37							
MW2		1/31/04	13.50	258.87	272.37							
MW2		2/20/04	13.11	259.26	272.37							
MW2		3/31/04	13.47	258.90	272.37							
MW2		5/2/04	13.64	258.73	272.37							

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
MW2		6/1/04	13.79	258.58	272.37							
MW2		6/30/04	14.19	258.18	272.37							
MW2		7/31/04	14.54	257.83	272.37							
MW2		9/4/04	15.03	257.34	272.37							
MW2		10/1/04	15.37	257.00	272.37							
MW2		10/12/04		0.00								
MW2		1/4/05	12.57	259.80	272.37							
MW2		4/1/05	12.20	260.17	272.37							
MW2		6/30/05	13.43	258.94	272.37							
MW2		10/6/05	13.45	258.92	272.37							
MW2		10/14/05		0.00		5	19.2	6.20	500	0.2	119	
MW2		1/17/06	12.97	259.40	272.37							
MW2		2/10/06	13.36	259.01	272.37	7	19.5	6.90	390	0.3	-178	
MW2		3/10/06	12.14	260.23	272.37							
MW2		4/29/06	12.88	259.49	272.37							
MW2		5/23/06	13.43	258.94	272.37	18	17.7	7.00	360	7.2	-23	
MW2	continued	6/30/06	14.05	258.32	272.37							
MW2	269.37	7/25/06	13.98	258.39	272.37							
MW2		8/24/06	15.30	257.07	272.37	8	19.0	6.60	360	5.6	80	
MW2		9/29/06	14.07	258.30	272.37							
MW2		10/24/06	13.98	258.39	272.37							
MW2		11/30/06	14.06	258.31	272.37							
MW2		12/29/06	13.88	258.49	272.37							
MW2		1/31/07	14.35	258.02	272.37							
MW2		2/27/07	12.62	259.75	272.37							
MW2		3/13/07		0.00		13	19.1	6.70	240	4.9	-108	
MW2		3/30/07	14.05	258.32	272.37							
MW2		4/30/07	14.12	258.25	272.37							
MW2		5/31/07	14.36	258.01	272.37							
MW2		6/25/07	14.52	257.85	272.37	15	18.4	6.95	420	6.3	-46	
MW2		7/29/07	14.59	257.78	272.37							
MW2		8/30/07	14.86	257.51	272.37							
MW2		9/27/07	14.89	257.48	272.37	14	18.9	6.59	540	5.5	-87	
MW2		10/31/07	14.11	258.26	272.37							
MW2		11/29/07	13.59	258.78	272.37							
MW2		12/26/07	13.48	258.89	272.37	9	19.0	7.40	900 Q	3.2	-79	
MW2		2/2/08	13.12	259.25	272.37							
MW2		3/2/08	13.71	258.66	272.37							
MW2		7/7/08	13.81	258.56	272.37	6	18.32	6.69	531	3.63	-38.2	
MW2		10/10/08	14.20	258.17	272.37	7.5	17.81	6.66	448	2.2	-76.8	
MW2		11/5/08	13.95	258.42	272.37							
MW2		12/30/08	14.08	258.29	272.37	6	17.71	6.98	472	1.41	-37.5	
MW2		3/12/09	13.81	258.56	272.37	6	17.64	7.09	461	2.19	-42.8	300
MW2		6/16/09	14.24	258.13	272.37	6	18.01	6.93	444	1.61	-47.1	288
MW2		9/22/09	14.35	258.02	272.37	6	17.96	6.94	441	1.89	-47.6	286
MW2		12/15/09	14.08	258.29	272.37	6	18.35	6.99	464	3.82	-51.3	302
MW2		3/22/10	13.94	258.43	272.37	6.00	18.98	7.11	479	2.09	-64.2	311
MW2		6/22/10	14.23	258.14	272.37	6.00	18.33	6.77	478	3.18	-10.6	310
MW2		9/22/10	14.68	257.69	272.37	6	18.25	6.96	468	1.72	-57.6	304
MW2		12/13/10	14.01	258.36	272.37	6	18.21	7.22	481	1.22	-64.1	313

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
MW2		3/29/11	11.40	260.97	272.37	7.5	18.62	6.67	469	1.08	-155.1	303
MW2		6/23/11	14.53	257.84	272.37	6	17.82	6.91	488	1.25	-178.1	317
MW2		9/14/11	14.48	257.89	272.37	6	18.57	7.01	418	1.23	54.4	310
MW2		12/14/11	14.09	258.28	272.37	6	18.69	6.55	469	1.27	-83.9	305
MW2		3/21/12	13.19	259.18	272.37	6	18.00	6.72	439	1.35	-76.8	285
MW2		6/26/12	14.64	257.73	272.37	6	17.75	6.86	470	2.88	-59.7	305
MW2		9/27/12	14.79	257.58	272.37	6	18.43	6.06	462	1.16	2.3	301
MW2		12/19/12	14.10	258.27	272.37	6	18.62	7.23	479	2.04	-90.1	311
MW2		3/11/13	14.31	258.06	272.37	6	18.37	6.65	525	2.63	-4.8	341
MW2		6/26/13	15.03	257.34	272.37	6	18.01	6.46	535	1.18	190.3	347
MW2		9/11/13	15.59	256.78	272.37	5	18.95	6.57	548	2.00	-52.1	356
MW2		12/11/13	15.50	256.87	272.37	5	18.20	6.79	543	0.80	-49.6	353
MW2		3/5/14	13.55	258.82	272.37	7	18.66	7.58	540	1.16	-43.1	351
MW2		4/9/14	13.88	258.49	272.37	8	18.16	7.05	514	1.67	-16.7	334
MW2		5/5/14	14.02	258.35	272.37	6	18.23	7.38	496	1.25	-27.6	323
MW2		6/17/14	14.68	257.69	272.37	4	18.13	6.91	509	1.20	-73	331
MW2		7/16/14	14.81	257.56	272.37	6	18.37	7.13	492	1.90	-79.5	320
MW2		8/20/14	15.68	256.69	272.37	5	18.82	6.33	493	1.40	94.1	321
MW2		9/18/14	16.10	256.27	272.37	5	19.11	7.08	467	1.12	-39.5	303
MW2		10/30/14	14.91	257.46	272.37	6	19.06	7.01	469	0.97	-59.5	305
MW2	continued	11/21/14	13.92	258.45	272.37	6	19.13	7.14	506	1.00	-17.7	329
MW2	272.38	12/18/14	13.34	259.03	272.37	7	19.34	7.42	499	0.76	-23.9	324
MW2		3/24/15	13.70	258.67	272.37	7	18.01	7.04	466	0.14	-31.5	303
MW2		6/11/15	13.34	259.03	272.37	8	18.04	6.65	451	0.12	8.6	293
MW2		9/17/15	15.68	256.69	272.37	5	19.35	7.06	453	0.62	-75.4	294
MW2		12/15/15	12.99	259.38	272.37	7	19.52	6.96	463	1.08	17.6	301
MW2		3/29/16	13.11	259.26	272.37	7	18.92	6.97	460	0.10	-79.0	299
MW2		6/20/16	13.61	258.76	272.37	7	18.88	6.61	442	0.47	-84.2	287
MW2		9/7/16	14.67	257.70	272.37	6	19.26	6.68	457	0.39	18.7	297
MW2		12/8/16	13.53	258.84	272.37	7	19.4	6.93	474	0.35	-74.3	308
MW2		3/10/17	12.75	259.62	272.37	3	18.9	6.95	487	0.16	-40.7	317
MW2		6/13/17	7.15	265.22	272.37	6	18.6	6.94	419	0.63	-44.3	270
MW2		9/13/17	14.58	257.79	272.37	6	19.8	6.99	447	1.47	-43.9	290
MW2		12/6/17	13.73	258.64	272.37	6	19.5	7.02	430	0.73	-71.6	279
MW2		3/9/18	13.57	258.80	272.37	6	18.5	7.05	529	1.3	-51	266
MW2		6/15/18	13.96	258.41	272.37	6	19.2	6.56	546	1.5	-34	273
MW2		9/17/18	14.77	257.60	272.37	6	19.4	7.03	574	7.3	-39	287
MW2		12/17/18	14.62	257.75	272.37	6	18.8	6.98	525	1.9	-63	262
MW2		3/18/19	14.02	258.35	272.37	6	18.9	7.01	425	3.1	-10	305
MW2		5/13/19	14.43	257.94	272.37	6	19.1	7.01	550	2.8	-15	390
MW2		9/16/19	15.14	257.23	272.37	6	18.5	6.93	540	3.0	-45	385
MW2		12/16/19	13.62	258.75	272.37	6.5	19.3	6.91	451	1.59	-20	334
MW2		3/16/20	13.00	259.37	272.37	6.5	15.6	6.87	546	1.83	36	384
MW2		6/16/20	14.87	257.50	272.37	5.5	19.2	7.02	506	1.46	-28	360
MW2		9/14/20	16.04	256.33	272.37	5.0	21.4	7.01	496	1.16	-37	351
MW2		12/15/20	14.49	257.88	272.37	6.0	17.8	7.10	502	1.08	3	356
MW2		3/17/21	14.00	258.37	272.37	6.0	18.3	7.19	485	1.88	30	345
MW2		6/22/21	14.88	257.49	272.37	5.5	19.3	7.01	466	1.67	10	331
MW2		9/21/21	17.29	255.08	272.37	4.5	21.1	6.66	527	0.83	86	374

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
MW2A	276.26	9/12/13	19.14	257.12	276.26	4.5	18.68	6.88	544	1.19	-133.6	354
MW2A		12/11/13	18.85	257.41	276.26	4.5	18.79	6.93	544	1.89	-93.9	354
MW2A		3/5/14	15.91	260.35	276.26	6	14.58	8.52	545	1.32	-123	354
MW2A		4/9/14	16.18	260.08	276.26	10	15.53	7.34	521	1.90	-68.9	339
MW2A		5/5/14	16.44	259.82	276.26	6	16.01	8.36	513	1.13	-114.2	333
MW2A		6/17/14	17.69	258.57	276.26	6	16.84	6.89	562	1.05	-129.0	366
MW2A		7/16/14	17.78	258.48	276.26	5.25	18.00	6.31	533	1.96	-70.9	346
MW2A		8/20/14	18.93	257.33	276.26	4.5	20.86	7.11	443	1.29	-34.0	288
MW2A		9/18/14	19.41	256.85	276.26	4.5	22.32	7.23	422	1.20	-139.4	275
MW2A		10/30/14	17.44	258.82	276.26	5.25	21.87	7.29	435	0.86	-128.7	283
MW2A		11/21/14	16.54	259.72	276.26	8	20.52	7.97	520	0.86	-91.0	338
MW2A		12/18/14	15.98	260.28	276.26	6	20.00	6.99	491	0.73	-120.9	319
MW2A		3/24/15	16.50	259.76	276.26	6.5	16.48	7.23	442	0.09	-125.7	287
MW2A		6/11/15	16.01	260.25	276.26	8	17.54	6.65	479	0.09	-70.7	311
MW2A		9/17/15	19.18	257.08	276.26	4.5	21.87	7.17	487	0.40	-146.6	317
MW2A		12/16/15	15.72	260.54	276.26	6	19.48	7.02	532	1.14	3.5	346
MW2A		3/29/16	14.89	261.37	276.26	6.75	14.30	7.21	442	0.25	-131.8	287
MW2A		6/21/16	16.19	260.07	276.26	6	18.12	6.67	541	0.68	-152.4	352
MW2A		9/8/16	17.73	258.53	276.26	5.25	21.40	7.09	526	0.38	-87.6	342
MW2A		12/8/16	16.18	260.08	276.26	8	20.2	6.96	540	0.31	-158.2	351
MW2A		3/9/17	14.43	261.83	276.26	7.5	16.1	7.14	395	0.10	-123.6	256
MW2A		6/13/17	16.44	259.82	276.26	8	16.4	7.03	404	0.45	-107.6	263
MW2A		9/13/17	17.05	259.21	276.26	6	20.4	6.99	474	1.60	-104.1	308
MW2A		12/5/17	15.87	260.39	276.26	6	18.9	7.10	448	0.25	-129.9	291
MW2A		3/9/18	15.61	260.65	276.26	6	15.7	7.14	578	1.5	-98	289
MW2A		6/15/18	15.79	260.47	276.26	6	18.4	6.88	633	1.5	-112	317
MW2A		9/17/18	17.38	258.88	276.26	5.5	22.0	7.00	693	6.7	-103	347
MW2A		12/17/18	17.75	258.51	276.26	5.5	22.0	7.05	672	1.1	-113	335
MW2A		3/18/19	15.93	260.33	276.26	5	19.8	6.92	513	0.4	-107	365
MW2A		5/13/19	16.85	259.41	276.26	4.5	20.0	7.13	543	1.0	-48	385
MW2A		9/16/19	17.56	258.70	276.26	5.5	21.2	6.81	547	2.6	0	388
MW2A		12/16/19	15.75	260.51	276.26	6.0	19.0	6.91	485	1.17	-83	344
MW2A		3/16/20	16.14	260.12	276.26	6.0	15.5	7.17	380	0.90	-78	269
MW2A		6/16/20	17.42	258.84	276.26	5.5	17.3	7.19	394	1.27	-105	282
MW2A		9/14/20	19.10	257.16	276.26	4.5	20.5	7.10	425	0.75	-130	300
MW2A		12/15/20	17.25	259.01	276.26	5.5	17.9	7.15	552	1.27	-93	391
MW2A		3/17/21	16.48	259.78	276.26	6.0	16.4	7.23	391	2.07	-69	279
MW2A		6/22/21	17.83	258.43	276.26	5.0	18.3	7.07	471	1.08	-88	335
MW2A		9/21/21	20.60	255.66	276.26	4.0	21.2	6.80	512	1.17	-68	365
MW3	269.85	7/16/02	15.28	254.57	269.85							
MW3		9/18/02	16.11	253.74	269.85							
MW3		10/29/02	16.51	253.34	269.85							
MW3		11/22/02	14.22	255.63	269.85							
MW3		12/31/02	13.31	256.54	269.85							
MW3		1/21/03	16.12	253.73	269.85							
MW3		6/30/03	14.47	255.38	269.85							
MW3		7/31/03	15.41	254.44	269.85							
MW3		8/31/03	15.83	254.02	269.85							
MW3		9/30/03	15.93	253.92	269.85							
MW3		10/31/03	16.20	253.65	269.85							
MW3		11/30/03	14.37	255.48	269.85							
MW3		12/31/03	13.55	256.30	269.85							
MW3		1/31/04	13.58	256.27	269.85							

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
MW3		2/20/04	13.31	256.54	269.85							
MW3		3/31/04	13.67	256.18	269.85							
MW3		5/2/04	14.29	255.56	269.85							
MW3		6/1/04	14.68	255.17	269.85							
MW3		6/30/04	15.31	254.54	269.85							
MW3		7/31/04	15.78	254.07	269.85							
MW3		9/4/04	15.77	254.08	269.85							
MW3		10/1/04	15.98	253.87	269.85							
MW3		1/4/05	13.03	256.82	269.85							
MW3		4/1/05	11.22	258.63	269.85			6.90				
MW3		6/30/05	13.72	256.13	269.85			6.90				
MW3		10/6/05	15.03	254.82	269.85							
MW3		10/14/05		0.00	269.85	5	18.2	6.90	420	5.4	-33	
MW3		1/17/06	11.93	257.92	269.85							
MW3		2/13/06	12.76	257.09	269.85	14	18.6	6.90	560	1.2	-74	
MW3		3/10/06	11.62	258.23	269.85							
MW3		4/29/06	11.41	258.44	269.85							
MW3		5/23/06	13.34	256.51	269.85	9	17.7	7.00	550	7.4	109	
MW3		6/30/06	14.02	255.83	269.85							
MW3		7/25/06	15.26	254.59	269.85							
MW3		8/25/06	15.42	254.43	269.85	14	17.8	7.00	840 Q	4.7	103	
MW3		9/29/06	15.02	254.83	269.85							
MW3		10/24/06	13.89	255.96	269.85							
MW3		11/30/06	13.66	256.19	269.85							
MW3		12/12/06		0.00								
MW3		12/29/06	13.49	256.36	269.85							
MW3		1/31/07	13.89	255.96	269.85							
MW3		2/27/07	13.34	256.51	269.85							
MW3		3/13/07		0.00		13	19.0	7.00	100 Q	5.0	-9	
MW3		3/30/07	13.99	255.86	269.85							
MW3		4/30/07	14.46	255.39	269.85							
MW3		5/31/07	15.28	254.57	269.85							
MW3		6/25/07	15.82	254.03	269.85	14	17.8	7.00	560	6.7	231	
MW3		7/29/07	15.48	254.37	269.85							
MW3		8/30/07	16.33	253.52	269.85							
MW3		9/27/07	16.52	253.33	269.85	15	18.2	6.51	660	5.8	-7	
MW3	continued	10/31/07	15.47	254.38	269.85							
MW3	269.85	12/31/07	13.79	256.06	269.85	10	18.7	7.06	590	2.4	33	
MW3		2/2/08	13.16	256.69	269.85							
MW3		3/2/08	13.59	256.26	269.85							
MW3		7/7/08	16.41	253.44	269.85	5	18.33	6.69	609	3.84	49.6	
MW3		10/10/08	16.32	253.53	269.85	10	17.0	6.66	491	3.26	1.2	
MW3		11/5/08	16.16	253.69	269.85							
MW3		12/30/08	15.24	254.61	269.85	5	17.98	6.89	530	1.98	27.7	
MW3		3/12/09	13.35	256.50	269.85	6	18.49	6.95	564	1.55	-6.8	367
MW3		6/16/09	14.91	254.94	269.85	6	18.91	7.04	544	1.20	-47.4	354
MW3		9/22/09	16.31	253.54	269.85	5	18.13	6.92	494	2.62	-21.0	321
MW3		12/15/09	15.29	254.56	269.85	5	18.21	7.10	541	1.51	10.8	352
MW3		3/22/10	13.63	256.22	269.85	7	18.64	6.99	596	2.91	51.5	388
MW3		6/22/10	14.82	255.03	269.85	6	18.43	6.81	612	4.54	74.0	397
MW3		9/22/10	15.78	254.07	269.85	5	17.89	6.87	514	1.68	20.1	334
MW3		12/14/10	14.25	255.60	269.85	6	18.22	7.15	534	1.87	-19.2	348

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
MW3		3/29/11	11.05	258.80	269.85	8	18.51	6.62	571	1.21	-174.4	371
MW3		6/23/11	14.45	255.40	269.85	6	17.78	6.83	553	1.29	-44.0	360
MW3		9/14/11	15.85	254.00	269.85	5	17.90	6.85	517	1.13	-209.8	336
MW3		12/14/11	14.94	254.91	269.85	6	18.02	6.45	524	1.82	-48.6	341
MW3		3/21/12	13.75	256.10	269.85	6	18.17	6.54	503	1.34	54.5	327
MW3		6/26/12	15.73	254.12	269.85	5	17.37	6.55	511	1.56	70.4	332
MW3		9/26/12	16.59	253.26	269.85	5	17.84	6.29	517	2.42	40.0	336
MW3		12/18/12	14.76	255.09	269.85	6	17.55	6.94	530	1.46	23.9	345
MW3		3/11/13	14.87	254.98	269.85	6	17.96	6.42	575	2.92	-16.7	374
MW3		6/26/13	16.71	253.14	269.85	5	17.80	6.53	556	0.92	129	365
MW3		9/11/13	18.00	251.85	269.85	5	18.11	6.23	571	2.03	83.0	372
MW3		12/12/13	17.60	252.25	269.85	5	17.66	6.77	560	1.20	-3.9	364
MW3		3/4/14	14.97	254.88	269.85	6	17.95	6.88	585	1.11	110.2	382
MW3		4/9/14	14.91	254.94	269.85	6	17.82	7.63	577	1.69	193.5	375
MW3		5/5/14	15.57	254.28	269.85	5	17.77	7.46	582	0.87	102.4	378
MW3		6/17/14	16.83	253.02	269.85	5	17.34	6.83	581	1.21	-16.9	380
MW3		7/16/14	17.42	252.43	269.85	8	17.77	6.22	590	2.13	26.7	383
MW3		8/20/14	18.32	251.53	269.85	5	18.06	7.10	563	1.90	114.8	368
MW3		9/18/14	18.89	250.96	269.85	6	17.63	6.65	528	1.89	94.3	343
MW3		10/30/14	18.46	251.39	269.85	5	17.67	6.95	536	1.23	-30.7	348
MW3		11/21/14	17.32	252.53	269.85	4.5	17.95	6.89	578	1.93	99.4	376
MW3		12/18/14	16.28	253.57	269.85	5.3	18.00	7.65	564	1.01	93.8	366
MW3		3/24/15	15.43	254.42	269.85	6.5	18.10	6.89	624	0.10	42.4	406
MW3		6/11/15	16.04	253.81	269.85	6	17.98	6.57	610	0.16	99.7	397
MW3		9/17/15	18.54	251.31	269.85	4	18.07	6.95	574	2.71	10.3	373
MW3		12/16/15	16.24	253.61	269.85	9	18.24	6.94	561	1.10	50.2	365
MW3		3/29/16	13.78	256.07	269.85	6	18.23	6.69	641	0.13	48.7	426
MW3		6/20/16	15.85	254.00	269.85	5	17.95	6.29	593	0.69	42.9	386
MW3		9/8/16	17.34	252.51	269.85	6	17.72	6.74	556	0.54	131.8	362
MW3		12/8/16	15.55	254.30	269.85	5	17.9	6.82	566	0.40	-35.4	369
MW3		3/10/17	11.58	258.27	269.85	8	17.9	6.66	638	0.16	96.2	416
MW3		6/14/17	14.95	254.90	269.85	8	17.6	6.71	597	0.65	90.8	390
MW3		9/13/17	16.52	253.33	269.85	5	18.1	6.76	551	1.21	55.4	358
MW3		12/6/17	15.44	254.41	269.85	5	18.2	6.84	537	0.88	76.9	350
MW3		3/9/18	15.07	254.78	269.85	7.5	18.1	6.91	647	1.4	67	324
MW3		6/14/18	16.15	253.70	269.85	7.0	17.1	6.88	623	1.4	90	310
MW3		9/17/18	17.45	252.40	269.85	6.5	17.6	6.95	621	5.9	87	311
MW3	continued	12/17/18	16.65	253.20	269.85	7.0	17.6	6.83	630	1.7	100	310
MW3	269.85	3/18/19	13.26	256.59	269.85	8.5	18.6	6.77	549	2.4	122	389
MW3		5/13/19	15.13	254.72	269.85	7.5	18.1	6.90	568	1.4	112	403
MW3		9/16/19	17.52	252.33	269.85	6.5	17.9	6.91	567	3.0	44	404
MW3		12/16/19	15.48	254.37	269.85	7.5	18.1	6.82	550	2.06	142	389
MW3		3/16/20	15.85	254.00	269.85	7	17.2	6.96	576	2.45	106	409
MW3		6/16/20	16.36	253.49	269.85	7	18.6	6.99	522	2.44	71	371
MW3		9/14/20	18.54	251.31	269.85	6	18.9	7.05	483	2.10	215	342
MW3		12/15/20	17.15	252.70	269.85	6.5	18.2	7.10	502	2.30	85	402
MW3		3/17/21	15.83	254.02	269.85	7.0	18.6	7.12	484	2.48	175	344
MW3		6/22/21	17.56	252.29	269.85	6.5	18.2	7.00	469	2.25	181	333
MW3		9/21/21	20.20	249.65	269.85	5.0	18.5	6.80	502	2.92	210	356
MW3A	278.27	8/30/07	22.05	256.22	278.27							
MW3A		9/24/07	22.06	256.21	278.27							
MW3A		10/31/07	21.52	256.75	278.27							
MW3A		11/29/07	20.72	257.55	278.27							
MW3A		12/26/07	20.74	257.53	278.27	14	19.0	7.30	860 Q	2.8	-105	
MW3A		2/2/08	20.37	257.90	278.27							

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
MW3A		3/2/08	20.99	257.28	278.27							
MW3A		7/7/08	21.08	257.19	278.27	6	17.87	6.99	568	4.56	-59.1	
MW3A		10/10/08	21.52	256.75	278.27	6	18.05	6.63	503	3.02	-106.3	
MW3A		11/5/08	21.16	257.11	278.27							
MW3A		12/30/08	21.21	257.06	278.27	5	18.11	7.01	519	0.90	-68.6	
MW3A		3/12/09	20.96	257.31	278.27	6	17.72	7.87	509	1.83	-64.3	331
MW3A		6/16/09	21.68	256.59	278.27	5	18.33	7.05	497	1.50	-66.1	324
MW3A		9/22/09	21.69	256.58	278.27	5	18.03	6.93	501	1.49	-61.9	326
MW3A		12/15/09	21.11	257.16	278.27	5	18.31	7.25	545	1.52	-63.1	354
MW3A		3/22/10	21.95	256.32	278.27	5	17.96	7.36	542	2.76	-93.3	353
MW3A		6/22/10	21.41	256.86	278.27	5	17.95	6.82	520	3.00	-27.3	337
MW3A		9/22/10	21.80	256.47	278.27	5	18.57	6.99	507	1.32	-92.0	329
MW3A		12/14/10	21.08	257.19	278.27	5	18.36	7.32	527	1.15	-82.5	343
MW3A		3/29/11	18.76	259.51	278.27	7	16.95	6.93	577	1.51	-138.7	363
MW3A		6/23/11	21.55	256.72	278.27	5	17.23	6.75	534	1.57	-78.2	347
MW3A		9/14/11	21.96	256.31	278.27	5	18.54	6.81	495	1.18	-206.3	322
MW3A		12/14/11	21.57	256.70	278.27	5	18.65	6.62	496	1.49	-107.3	322
MW3A		3/21/12	20.62	257.65	278.27	6	17.14	6.51	489	1.46	-78.7	318
MW3A		6/26/12	22.10	256.17	278.27	5	16.78	6.51	505	1.62	-64.9	328
MW3A		9/26/12	22.22	256.05	278.27	5	17.56	6.68	518	2.71	-43.3	336
MW3A		12/18/12	21.55	256.72	278.27	6	17.52	7.01	531	1.03	-107.4	345
MW3A		3/11/13	21.79	256.48	278.27	6	17.29	6.92	584	2.10	-44.6	380
MW3A		6/27/13	22.39	255.88	278.27	5	17.51	6.77	591	1.56	100.7	385
MW3A		9/12/13	22.79	255.48	278.27	5	17.69	6.21	614	1.10	-66.4	398
MW3A		12/11/13	22.64	255.63	278.27	5	18.23	6.77	645	0.87	-80.3	416
MW3A		3/5/14	20.88	257.39	278.27	6	17.72	7.98	592	1.21	-82.7	385
MW3A		4/9/14	21.45	256.82	278.27	6	17.15	7.75	567	1.98	-83.3	368
MW3A		5/5/14	21.68	256.59	278.27	5	17.33	8.96	547	0.97	-66.8	356
MW3A		6/17/14	22.12	256.15	278.27	7	16.81	6.94	570	1.14	-113.0	370
MW3A		7/16/14	22.29	255.98	278.27	5	17.38	6.95	556	1.93	-77.4	362
MW3A		8/20/14	23.06	255.21	278.27	5	18.00	7.04	565	1.88	-25.8	367
MW3A		9/18/14	23.62	254.65	278.27	5	18.44	6.97	520	1.09	-73.1	338
MW3A		10/30/14	22.73	255.54	278.27	5	18.16	7.26	544	1.22	-99.8	354
MW3A		11/21/14	21.56	256.71	278.27	5	18.29	7.72	581	1.18	-47.8	378
MW3A		12/18/14	20.72	257.55	278.27	6	18.50	6.85	586	0.70	-73.5	381
MW3A		3/24/15	21.33	256.94	278.27	7	17.21	7.07	547	0.14	-81.2	356
MW3A		6/11/15	21.06	257.21	278.27	8	17.57	6.80	522	0.12	-42.2	340
MW3A		9/17/15	23.04	255.23	278.27	5	18.28	7.08	535	0.96	-90.3	348
MW3A		12/16/15	20.69	257.58	278.27	6	18.63	6.90	478	2.84	10.9	309
MW3A		3/29/16	20.94	257.33	278.27	6	17.45	7.07	529	0.14	-104.3	344
MW3A		6/21/16	21.51	256.76	278.27	7	17.41	6.47	490	1.08	-70.4	318
MW3A		9/8/16	22.17	256.10	278.27	5	17.71	7.00	498	0.86	-8.6	322
MW3A		12/8/16	21.33	256.94	278.27	5	18.2	6.95	568	0.37	-94.4	369.20
MW3A	continued	3/10/17	20.13	258.14	278.27	6	17.4	6.99	545	0.12	-65.7	354
MW3A	278.27	6/14/17	21.28	256.99	278.27	6	17.7	7.02	488	0.37	-51.6	312
MW3A		9/13/17	21.97	256.30	278.27	5	18.8	6.98	476	1.20	-80.6	309
MW3A		12/5/17	21.34	256.93	278.27	5	19.5	7.04	444	0.22	-88.4	289
MW3A		3/9/18	21.09	257.18	278.27	6	18.3	7.09	565	1.0	-81	284
MW3A		6/15/18	21.64	256.63	278.27	6	20.7	6.52	588	1.1	-70	295
MW3A		9/17/18	22.17	256.10	278.27	6	20.1	6.91	632	7.0	-90	316
MW3A		12/17/19	21.64	256.63	278.27	5.5	19.7	6.85	612	1.4	-84	305
MW3A		3/18/19	20.64	257.63	278.27	6	19.0	6.94	528	1.4	-60	380
MW3A		5/13/19	21.48	256.79	278.27	5.0	19.1	7.37	586	1.2	-72	407

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
MW3A		9/16/19	22.35	255.92	278.27	5.5	19.6	6.87	559	2.4	-3	397
MW3A		12/16/19	20.90	257.37	278.27	6.0	17.9	6.88	543	0.97	-22	386
MW3A		3/16/20	19.90	258.37	278.27	6.5	16.3	7.00	579	1.18	-47	412
MW3A		6/16/20	22.04	256.23	278.27	5.5	18.6	7.05	510	0.94	-61	362
MW3A		9/14/20	23.09	255.18	278.27	5.5	20.0	7.02	477	0.84	-53	340
MW3A		12/15/20	21.38	256.89	278.27	6.0	18.4	7.05	499	1.82	-33	354
MW3A		3/17/21	21.31	256.96	278.27	6.0	17.9	7.14	473	1.95	-11	336
MW3A		6/22/21	22.08	256.19	278.27	5.5	19.6	6.97	456	0.91	-44	324
MW3A		9/21/21	24.50	253.77	278.27	4.5	21.1	6.80	475	0.76	55	336
MW4	268.77	7/16/02	12.64	256.13	268.77							
MW4		9/18/02	13.51	255.26	268.77							
MW4		10/29/02	13.81	254.96	268.77							
MW4		11/22/02	11.73	257.04	268.77							
MW4		12/31/02	10.53	258.24	268.77							
MW4		1/21/03	14.51	254.26	268.77							
MW4		6/30/03	12.92	255.85	268.77							
MW4		7/31/03	12.98	255.79	268.77							
MW4		8/31/03	13.16	255.61	268.77							
MW4		9/30/03	13.27	255.50	268.77							
MW4		10/31/03	13.32	255.45	268.77							
MW4		11/30/03	11.51	257.26	268.77							
MW4		12/31/03	10.52	258.25	268.77							
MW4		1/31/04	10.60	258.17	268.77							
MW4		2/20/04	10.13	258.64	268.77							
MW4		3/31/04	10.67	258.10	268.77							
MW4		5/2/04	11.71	257.06	268.77							
MW4		6/1/04	12.13	256.64	268.77							
MW4		6/30/04	12.67	256.10	268.77							
MW4		7/31/04	12.84	255.93	268.77							
MW4		9/4/04	12.12	256.65	268.77							
MW4		10/1/04	12.34	256.43	268.77							
MW4		1/4/05	10.15	258.62	268.77							
MW4		4/1/05	8.67	260.10	268.77							
MW4		6/30/05	10.40	258.37	268.77							
MW4		10/7/05	12.32	256.45	268.77	15	18.9	6.60	440	0.1	151	
MW4		1/17/06	8.57	260.20	268.77							
MW4		2/13/06	9.91	258.86	268.77	18	18.4	6.70	370	0.2	-100	
MW4		3/10/06	8.93	259.84	268.77							
MW4		4/29/06	8.79	259.98	268.77							
MW4		5/23/06	10.48	258.29	268.77	13	15.0	6.50	360	8.8	110	
MW4		6/30/06	12.01	256.76	268.77							
MW4		7/25/06	12.36	256.41	268.77							
MW4		8/24/06	12.33	256.44	268.77	18	15.3	6.30	840 Q	4.6	193	
MW4		9/29/06	11.41	257.36	268.77							
MW4		10/24/06	9.63	259.14	268.77							
MW4		11/30/06	9.65	259.12	268.77							
MW4		12/12/06		0.00								
MW4		12/29/06	9.59	259.18	268.77							
MW4		1/31/07	10.22	258.55	268.77							
MW4		2/27/07	9.62	259.15	268.77							
MW4		3/13/07		0.00		14	16.5	6.50	690 Q	5.5	3	
MW4	continued	3/30/07	10.74	258.03	268.77							
MW4	268.77	4/30/07	11.30	257.47	268.77							
MW4		5/31/07	12.33	256.44	268.77							
MW4		6/25/07	12.65	256.12	268.77	14	14.5	6.68	370	7.4	88	

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
MW4		7/29/07	11.72	257.05	268.77							
MW4		8/30/07	13.17	255.60	268.77							
MW4		9/27/07	13.07	255.70	268.77	14	14.9	6.69	490	6.6	38	
MW4		10/31/07	12.09	256.68	268.77							
MW4		11/29/07	11.01	257.76	268.77							
MW4		12/27/07	10.37	258.40	268.77	20	17.2	7.05	560 Q	0.0	28	
MW4		2/2/08	9.85	258.92	268.77							
MW4		3/2/08	10.44	258.33	268.77							
MW4		7/7/08	12.70	256.07	268.77	8	15.58	6.94	429	4.14	88.5	
MW4		10/10/08	13.45	255.32	268.77	9	15.24	6.54	391	4.49	22.9	
MW4		11/5/08	13.23	255.54	268.77							
MW4		12/30/08	12.15	256.62	268.77	8	15.95	6.79	431	1.84	48.5	
MW4		3/12/09	10.14	258.63	268.77	11	16.34	6.78	449	1.87	56	292
MW4		6/16/09	11.62	257.15	268.77	8	15.99	6.92	429	2.31	-37.5	279
MW4		9/22/09	13.68	255.09	268.77	7	16.02	6.76	439	2.28	-17.30	285
MW4		12/15/09	11.94	256.83	268.77	8	17.24	6.69	511	3.18	73.30	332
MW4		3/22/10	10.48	258.29	268.77	8	21.87	7.16	494	1.77	-9.30	321
MW4		6/22/10	11.92	256.85	268.77	8	17.15	6.90	448	3.88	61.20	291
MW4		9/22/10	12.44	256.33	268.77	8	17.03	6.77	447	1.47	56.2	291
MW4		12/14/10	10.73	10.73	268.77	8	17.71	7.05	480	1.28	-0.2	312
MW4		3/29/11	8.64	260.13	268.77	9	18.32	6.67	403	1.09	-176.6	262
MW4		6/23/11	11.06	257.71	268.77	8	16.53	7.05	362	1.96	-63.9	235
MW4		9/14/11	12.41	256.36	268.77	8	16.55	7.11	371	1.39	105.8	241
MW4		12/14/11	11.46	257.31	268.77	8	17.41	6.40	413	1.33	-36.8	269
MW4		3/21/12	10.35	258.42	268.77	8	17.59	6.01	399	5.17	59.0	260
MW4		6/26/12	12.37	256.40	268.77	8	16.69	6.27	392	1.47	46.8	255
MW4		9/26/12	13.09	255.68	268.77	7	17.10	6.43	433	2.64	25.8	282
MW4		12/18/12	11.14	257.63	268.77	8	17.22	6.90	446	1.59	-40.8	290
MW4		3/11/13	11.42	257.35	268.77	9	17.59	6.76	437	2.31	103.2	284
MW4		6/27/13	13.30	255.47	268.77	7	16.72	6.79	427	4.12	150.1	278
MW4		9/11/13	14.85	253.92	268.77	6	17.15	6.71	434	1.80	87.2	281
MW4		12/11/13	14.21	254.56	268.77	7	17.32	6.76	451	1.23	20.9	293
MW4		3/5/14	11.52	257.25	268.77	8	17.90	6.86	456	1.08	136.2	296
MW4		6/17/14	13.70	255.07	268.77	8	18.00	6.74	460	1.31	29.1	299
MW4		9/18/14	15.99	252.78	268.77	6	17.30	6.83	417	1.14	28.2	271
MW4		12/18/14	13.36	255.41	268.77	7	17.88	6.81	436	0.65	-1.8	283
MW4		3/24/15	12.50	256.27	268.77	9	17.73	6.62	455	0.07	44.0	296
MW4		6/11/15	13.35	255.42	268.77	8	17.26	6.53	467	0.11	101.8	303
MW4		9/17/15	15.61	253.16	268.77	6	17.56	6.66	476	0.69	93.7	310
MW4		12/16/15	13.53	255.24	268.77	9	18.09	6.67	473	1.14	46.6	307
MW4		3/29/16	10.99	257.78	268.77	8	17.85	6.78	537	0.17	79.0	349
MW4		6/21/16	13.08	255.69	268.77	8	17.20	6.59	535	0.83	121.0	348
MW4		9/8/16	14.36	254.41	268.77	9	17.36	6.66	498	0.50	140.1	324
MW4		12/9/16	12.36	256.41	268.77	8	18.5	6.58	507	0.48	61.1	330
MW4		3/9/17	9.04	259.73	268.77	9	18.1	6.66	707	0.14	175.5	461
MW4		6/14/17	8.34	260.43	268.77	13	16.9	6.67	468	0.63	102.8	304
MW4		9/13/17	12.86	255.91	268.77	8	17.8	6.81	494	2.14	89.6	320
MW4		12/5/17	12.16	256.61	268.77	8	19.9	6.77	449	0.29	140.7	292
MW4		3/9/18	11.91	256.86	268.77	8	19.8	6.79	542	1.2	136	271
MW4		6/15/18	13.19	255.58	268.77	9	19.0	6.71	560	1.6	131	280

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
MW4	continued	9/17/18	14.12	254.65	268.77	8	21.0	6.84	561	5.2	405	231
MW4	268.77	12/17/18	12.46	256.31	268.77	9	18.9	6.92	560	0.7	157	290
MW4		3/18/19	9.72	259.05	268.77	10	18.8	6.85	399	2.2	145	282
MW4		5/13/19	11.49	257.28	268.77	9.5	18.1	6.88	395	1.5	202	278
MW4		12/16/19	11.99	256.78	268.77	9.0	18.3	6.78	473	2.03	204	336
MW4		9/16/19	14.05	254.72	268.77	8.0	17.6	6.74	483	2.6	24	341
MW4		3/16/20	11.74	257.03	268.77	9.0	16.8	6.87	472	1.31	155	334
MW4		6/16/20	12.38	256.39	268.77	9.0	19.5	6.85	497	1.28	139	353
MW4		9/14/20	15.02	253.75	268.77	7.5	19.0	6.87	482	1.66	211	341
MW4		12/15/20	13.75	255.02	268.77	8.5	17.8	6.94	460	1.82	107	324
MW4		3/17/21	12.30	256.47	268.77	9.0	18.5	7.03	450	1.82	153	319
MW4		6/22/21	14.20	254.57	268.77	8.0	19.3	6.86	455	1.81	164	323
MW4		9/21/21	16.65	252.12	268.77	7.0	19.1	6.72	451	1.79	200	319
MW4A	265.72	8/30/07	9.82	255.90	265.72							
MW4A		9/24/07	9.64	256.08	265.72							
MW4A		10/31/07	8.81	256.91	265.72							
MW4A		11/29/07	7.78	257.94	265.72							
MW4A		12/27/07	7.09	258.63	265.72	18	16.4	6.82	450	0.4	161	
MW4A		2/2/08	6.73	258.99	265.72							
MW4A		3/2/08	7.23	258.49	265.72							
MW4A		7/7/08	9.48	256.24	265.72	9	16.62	6.73	473	3.79	52.7	
MW4A		10/10/08	10.17	255.55	265.72	9	17.58	6.55	370	2.40	-44.2	
MW4A		11/5/08	9.86	255.86	265.72							
MW4A		12/30/08	8.68	257.04	265.72	9	16.16	6.72	366	1.84	49.3	
MW4A		3/12/09	6.97	258.75	265.72	10	14.83	7.11	403	3.03	114.1	262
MW4A		6/16/09	8.32	257.40	265.72	9	16.04	6.98	433	2.34	-56.1	282
MW4A		9/22/09	10.49	255.23	265.72	8	16.94	6.09	392	3.04	26.0	255
MW4A		12/15/09	8.50	257.22	265.72	9	16.60	6.16	398	3.61	116.2	259
MW4A		3/22/10	7.24	258.48	265.72	10	15.21	7.26	487	3.42	101.0	317
MW4A		6/22/10	8.64	257.08	265.72	9	16.11	6.95	514	6.94	86.2	334
MW4A		09/22/10	9.30	256.42	265.72	9	17.63	6.67	448	1.42	43.7	291
MW4A		12/14/10	7.54	258.18	265.72	9	15.89	6.96	456	1.62	38.6	296
MW4A		03/30/11	6.18	259.54	265.72	11	14.58	6.79	501	2.29	-167.8	326
MW4A		06/23/11	7.93	257.79	265.72	9	16.46	6.76	451	2.78	44.4	293
MW4A		09/14/11	9.23	256.49	265.72	9	18.19	6.74	418	0.93	-260.1	272
MW4A		12/14/11	8.15	257.57	265.72	9	15.85	6.26	397	2.01	-1.9	258
MW4A		03/21/12	7.10	258.62	265.72	10	14.32	6.40	370	2.12	66.5	239
MW4A		06/26/12	9.14	256.58	265.72	9	16.65	6.77	418	1.81	56.0	272
MW4A		09/26/12	9.92	255.80	265.72	8	17.87	6.32	421	1.78	36.7	274
MW4A		12/19/12	7.82	257.90	265.72	9	16.11	6.97	399	1.16	-34.5	259
MW4A		03/11/13	8.12	257.60	265.72	9	14.33	6.73	425	3.06	95.3	277
MW4A		06/27/13	10.01	255.71	265.72	9	15.37	6.64	415	2.98	131.9	269
MW4A		09/12/13	11.60	254.12	265.72	8	16.94	6.40	391	1.77	112.4	254
MW4A		12/11/13	10.91	254.81	265.72	8	16.60	6.69	369	1.42	32.6	240
MW4A		03/05/14	7.98	257.74	265.72	10	15.11	6.86	381	1.37	120.0	247
MW4A		06/17/14	10.45	255.27	265.72	9	16.76	6.76	391	1.58	60.7	254
MW4A		09/18/14	12.72	253.00	265.72	7	17.68	6.81	338	1.04	28.3	220
MW4A		12/18/14	9.81	255.91	265.72	8	17.37	6.95	347	0.62	31.8	225
MW4A		03/24/15	9.12	256.60	265.72	9	15.32	6.68	370	0.09	46.0	241
MW4A	continued	06/11/15	10.07	255.65	265.72	10	15.92	6.58	391	0.14	113.5	254
MW4A	265.72	09/17/15	12.34	253.38	265.72	8	18.11	6.68	396	0.60	99.1	258
MW4A		12/16/15	10.21	255.51	265.72	8	17.54	6.38	365	3.14	50.6	233
MW4A		03/29/16	6.68	259.04	265.72	10	14.63	6.72	468	0.12	112.4	304
MW4A		06/21/16	9.81	255.91	265.72	8	16.03	6.59	497	0.95	113.2	323
MW4A		09/08/16	11.16	254.56	265.72	7	16.83	6.65	471	0.50	134.8	306

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
MW4A		12/09/16	8.99	256.73	265.72	9	17.1	6.54	454	0.48	66.5	295
MW4A		03/09/17	6.37	259.35	265.72	11	13.3	6.85	445	0.14	211.4	289
MW4A		06/14/17	7.92	257.80	265.72	10	17.1	6.74	473	0.43	116.1	308
MW4A		09/13/17	9.57	256.15	265.72	9	17.7	6.76	486	1.62	68.9	316
MW4A		12/05/17	8.73	256.99	265.72	9	16.8	6.79	436	0.36	162.1	283
MW4A		3/9/18	8.53	257.19	265.72	10	13.7	7.02	597	1.8	156	299
MW4A		6/15/18	9.94	255.78	265.72	9	16.8	6.64	560	1.5	136	280
MW4A		9/17/18	10.67	255.05	265.72	9	18.0	6.84	529	7.2	294	264
MW4A		12/17/18	8.73	256.99	265.72	9.5	16.6	6.77	540	2.0	150	270
MW4A		3/18/19	6.68	259.04	265.72	10.5	14.4	7.00	421	3.8	153	299
MW4A		5/13/19	8.21	257.51	265.72	10.0	18.2	6.88	513	3.2	140	368
MW4A		9/16/19	10.53	255.19	265.72	9.5	17.9	6.80	442	2.7	61	311
MW4A		12/16/19	8.42	257.30	265.72	10.0	15.9	6.89	435	1.87	207	311
MW4A		3/16/20	7.52	258.20	265.72	10.0	11.6	7.37	446	2.32	179	319
MW4A		6/16/20	9.02	256.70	265.72	9.5	16.8	6.92	484	2.06	164	344
MW4A		9/14/20	11.48	254.24	265.72	8.5	18.0	6.88	430	1.63	192	305
MW4A		12/15/20	10.19	255.53	265.72	9.0	16.1	7.03	413	1.67	145	294
MW4A		3/17/21	8.76	256.96	265.72	9.5	13.0	7.17	433	2.14	92	306
MW4A		6/22/21	10.73	254.99	265.72	8.5	16.6	6.88	387	1.29	158	270
MW4A		9/21/21	13.09	252.63	265.72	7.5	18.7	6.68	270	1.07	203	376
MW5A	266.13	8/30/07	8.86	257.27	266.13							
MW5A		9/24/07	8.72	257.41	266.13							
MW5A		10/31/07	7.92	258.21	266.13							
MW5A		11/29/07	6.68	259.45	266.13							
MW5A		12/31/07	6.06	260.07	266.13	45	16.3	6.94	460	1.3	224	
MW5A		2/2/08	5.72	260.41	266.13							
MW5A		3/2/08	6.22	259.91	266.13							
MW5A		7/2/08	8.29	257.84	266.13	40	59.9	7.00	353			
MW5A		10/10/08	9.43	256.70	266.13	40	17.24	6.63	295	3.45	24.1	
MW5A		11/5/08	9.17	256.96	266.13							
MW5A		12/30/08	7.84	258.29	266.13	39	16.47	6.77	306	1.29	133.1	
MW5A		3/12/09	5.99	260.14	266.13	44	15.25	6.87	415	2.03	117.8	269
MW5A		6/16/09	7.16	258.97	266.13	41	15.67	6.43	445	1.93	9.8	289
MW5A		9/22/09	9.82	256.31	266.13	36	17.41	6.85	318	2.30	51.8	207
MW5A		12/15/09	7.43	258.70	266.13	41	16.85	6.43	360	2.80	131.4	234
MW5A		3/22/10	6.27	259.86	266.13	43	15.27	6.68	529	2.59	97.9	344
MW5A		6/22/10	7.59	258.54	266.13	41	16.27	6.76	439	2.55	154.3	285
MW5A		9/22/10	8.26	257.87	266.13	39	16.51	6.68	430	1.62	97.6	279
MW5A		12/14/10	6.41	259.72	266.13	42	16.16	6.96	475	1.48	32.5	309
MW5A		3/29/11	5.08	261.05	266.13	45	15.06	6.80	496	2.11	-156.4	322
MW5A		6/23/11	6.54	259.59	266.13	42	14.33	6.62	464	1.84	24.2	302
MW5A		9/14/11	7.97	258.16	266.13	39	16.62	6.81	375	1.24	124.0	244
MW5A		12/14/11	6.96	259.17	266.13	42	16.48	6.35	359	1.69	-12.0	233
MW5A		3/21/12	5.89	260.24	266.13	45	14.91	6.62	379	2.60	36.3	245
MW5A		6/26/12	7.82	258.31	266.13	40	15.61	6.67	370	1.64	53.8	240
MW5A		9/26/12	8.83	257.30	266.13	38	16.45	6.63	371	1.94	12.4	240
MW5A		12/19/12	6.72	259.41	266.13	42	16.46	6.97	424	1.18	-28.7	272
MW5A		3/11/13	6.94	259.19	266.13	42	14.76	6.61	404	2.09	71.3	262
MW5A		6/27/13	8.88	257.25	266.13	33	16.10	5.50	348	2.85	192.2	226
MW5A		9/12/13	11.79	254.34	266.13	33	17.85	6.82	360	2.40	118.7	221
MW5A		12/11/13	10.17	255.96	266.13	35	17.44	6.62	381	1.71	65.3	249
MW5A		3/5/14	6.84	259.29	266.13	41	16.08	6.97	401	1.28	138.4	261
MW5A		6/17/14	9.43	256.70	266.13	40	16.40	6.73	378	1.51	64.1	245
MW5A		9/18/14	12.09	254.04	266.13	32	17.38	6.76	317	1.11	-22.5	206
MW5A		12/18/14	8.76	257.37	266.13	38	17.68	6.79	370	0.56	44.6	240
MW5A		3/24/15	7.91	258.22	266.13	45	15.62	6.61	424	0.06	49.8	276

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
MW5A	continued	6/11/15	8.83	257.30	266.13	38	15.98	6.46	404	0.10	114.4	263
MW5A	266.13	9/17/15	11.69	254.44	266.13	33	17.57	6.65	380	0.55	92.0	247
MW5A		12/16/15	9.16	256.97	266.13	38	17.87	6.46	423	1.55	49.8	275
MW5A		3/29/16	6.68	259.45	266.13	42	15.00	6.61	505	0.13	138.9	328
MW5A		6/21/16	8.53	257.60	266.13	39	15.88	6.08	479	0.62	150.5	311
MW5A		9/8/16	10.31	255.82	266.13	36	17.49	6.66	425	0.32	144	276
MW5A		12/9/16	7.89	258.24	266.13	40	18.2	6.50	446	0.27	78.9	289.9
MW5A		3/9/17	5.12	261.01	266.13	45	14.9	6.74	457	0.20	163.1	297
MW5A		6/14/17	6.43	259.70	266.13	44	16.4	6.69	465	0.48	104.1	302
MW5A		9/13/17	8.28	257.85	266.13	39	17.1	6.53	512	1.80	138.6	333
MW5A		12/5/17	7.45	258.68	266.13	41	17.5	6.74	408	0.20	142.1	265
MW5A		3/9/18	7.25	258.88	266.13	41	14.3	6.84	491	1.90	154	245
MW5A		6/15/18	8.57	257.56	266.13	40	17.7	6.39	482	2.0	144	242
MW5A		9/17/18	9.52	256.61	266.13	37	17.9	6.62	462	8.4	150	231
MW5A		12/17/18	7.38	258.75	266.13	41	17.8	6.55	421	2.1	160	210
MW5A		3/18/19	5.27	260.86	266.13	45	18.0	6.83	398	1.3	180	282
MW5A		5/13/19	6.85	259.28	266.13	40	16.8	7.30	438	1.8	202	310
MW5A		9/16/19	9.25	256.88	266.13	37	19.2	6.67	408	3.9	26	292
MW5A		12/16/19	7.05	259.08	266.13	42	17.5	6.81	393	1.76	273	278
MW5A		3/16/20	5.99	260.14	266.13	44	14.2	7.03	379	3.26	161	169
MW5A		6/16/20	7.60	258.53	266.13	41	15.7	6.92	467	3.31	204	330
MW5A		9/14/20	10.47	255.66	266.13	35	18.9	6.84	341	2.56	193	241
MW5A		12/15/20	9.04	257.09	266.13	38	15.5	7.06	369	4.48	211	265
MW5A		3/17/21	7.47	258.66	266.13	41	15.1	7.01	384	2.91	219	274
MW5A		6/22/21	9.52	256.61	266.13	37	20.3	6.89	315	2.12	58	227
MW5A		9/21/21	12.27	253.86	266.13	31	20.3	7.02	315	2.89	129	223
Piezometers												
P1	268.88	8/30/07	8.77	260.11	268.88							
P1		9/24/07	8.99	259.89	268.88							
P1		10/31/07	8.12	260.76	268.88							
P1		11/29/07	6.38	262.50	268.88							
P1		12/24/07	5.65	263.23	268.88							
P1		2/2/08	4.97	263.91	268.88							
P1		3/2/08	6.84	262.04	268.88							
P1		7/21/08	8.34	260.54	268.88							
P1		10/2/08	9.61	259.27	268.88							
P1		11/5/08	9.52	259.36	268.88							
P1		12/29/08	7.73	261.15	268.88							
P1		3/11/09	5.40	263.48	268.88							
P1		6/16/09	6.28	262.60	268.88							
P1		9/22/09	9.86	259.02	268.88							
P1		12/15/09	7.83	261.05	268.88							
P1		3/22/10	5.36	263.52	268.88							
P1		6/22/10	6.73	262.15	268.88							
P1		9/22/10	8.14	260.74	268.88							
P1		12/13/10	5.96	262.92	268.88							
P1		3/28/11	3.68	265.20	268.88							
P1		6/22/11	5.18	263.70	268.88							
P1		9/13/11	7.04	261.84	268.88							
P1		12/12/11	6.01	262.87	268.88							
P1		3/20/12	4.52	264.36	268.88							
P1		6/25/12	6.29	262.59	268.88							
P1		9/24/12	8.17	260.71	268.88							

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				*6.5-8.4*	*700*			
P1		12/17/12	5.98	262.90	268.88							
P1		3/11/13	5.91	262.97	268.88							
P1		6/24/13	7.61	261.27	268.88							
P1		9/11/13	10.20	258.68	268.88							
P1		12/10/13	10.26	258.62	268.88							
P1		3/4/14	5.49	263.39	268.88							
P1		6/16/14	8.36	260.52	268.88							
P1		9/17/14	12.05	256.83	268.88							
P1	continued	12/17/14	7.62	261.26	268.88							
P1	268.88	3/23/15	7.01	261.87	268.88							
P1		6/10/15	7.08	261.80	268.88							
P1		9/16/15	11.72	257.16	268.88							
P1		12/15/15	7.77	261.11	268.88							
P1		3/29/16	4.89	263.99	268.88							
P1		6/20/16	6.89	261.99	268.88							
P1		9/7/16	10.06	258.82	268.88							
P1		12/7/16	6.92	261.96	268.88							
P1		3/8/17	3.67	265.21	268.88							
P1		6/13/17	5.23	263.65	268.88							
P1		9/12/17	7.47	261.41	268.88							
P1		12/4/17	5.92	262.96	268.88							
P1		3/9/18	5.65	263.23	268.88							
P1		6/15/18	6.14	262.74	268.88							
P1		9/16/18	8.44	260.44	268.88							
P1		12/16/18	7.25	261.63	268.88							
P1		3/18/19	3.65	265.23	268.88							
P1		5/13/19	5.22	263.66	268.88							
P1		9/15/19	7.54	261.34	268.88							
P1		12/15/19	5.42	263.46	268.88							
P1		3/15/20	4.92	263.96	268.88							
P1		6/14/20	6.34	262.54	268.88							
P1		9/13/20	9.89	258.99	268.88							
P1		12/15/20	8.11	260.77	268.88							
P1		3/17/21	6.15	262.73	268.88							
P1		6/22/21	8.11	260.77	268.88							
P1		9/21/21	12.08	256.80	268.88							
P2	277.33	8/30/07	17.12	260.21	277.33							
P2		9/24/07	17.41	259.92	277.33							
P2		10/31/07	16.72	260.61	277.33							
P2		11/29/07	15.72	261.61	277.33							
P2		12/24/07	15.16	262.17	277.33							
P2		2/2/08	14.45	262.88	277.33							
P2		3/2/08	15.06	262.27	277.33							
P2		7/21/08	16.28	261.05	277.33							
P2		10/2/08	17.41	259.92	277.33							
P2		11/5/08	17.37	259.96	277.33							
P2		12/29/08	16.10	261.23	277.33							
P2		3/11/09	14.86	262.47	277.33							
P2		6/16/09	15.86	261.47	277.33							
P2		9/22/09	17.47	259.86	277.33							
P2		12/15/09	16.41	260.92	277.33							
P2		3/22/10	15.16	262.17	277.33							
P2		6/22/10	15.82	261.51	277.33							
P2		9/22/10	16.96	260.37	277.33							
P2		12/13/10	15.45	261.88	277.33							

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
P2		3/28/11	12.82	264.51	277.33							
P2		6/22/11	15.14	262.19	277.33							
P2		9/13/11	16.34	260.99	277.33							
P2		12/12/11	15.75	261.58	277.33							
P2		3/20/12	14.43	262.90	277.33							
P2		6/25/12	16.01	261.32	277.33							
P2		9/24/12	17.44	259.89	277.33							
P2		12/17/12	16.09	261.24	277.33							
P2		3/11/13	15.99	261.34	277.33							
P2		6/24/13	17.09	260.24	277.33							
P2		9/11/13	18.70	258.63	277.33							
P2		12/10/13	18.87	258.46	277.33							
P2		3/4/14	13.84	263.49	277.33							
P2		6/16/14	17.04	260.29	277.33							
P2		9/17/14	19.79	257.54	277.33							
P2		12/17/14	14.47	262.86	277.33							
P2		3/23/15	15.91	261.42	277.33							
P2		6/10/15	15.02	262.31	277.33							
P2		9/16/15	19.46	257.87	277.33							
P2		12/15/15	14.74	262.59	277.33							
P2		3/29/16	12.64	264.69	277.33							
P2		6/21/16	15.04	262.29	277.33							
P2		9/7/16	18.38	258.95	277.33							
P2		12/7/16	15.22	262.11	277.33							
P2		3/8/17	12.85	264.48	277.33							
P2		6/13/17	15.53	261.80	277.33							
P2		9/12/17	16.89	260.44	277.33							
P2		12/4/17	14.48	262.85	277.33							
P2		3/8/17	14.25	263.08	277.33							
P2		6/15/18	14.30	263.03	277.33							
P2		9/16/18	16.68	260.65	277.33							
P2		12/16/18	17.18	260.15	277.33							
P2		3/18/19	14.58	262.75	277.33							
P2		5/10/19	15.45	261.88	277.33							
P2	continued	9/15/19	16.42	260.91	277.33							
P2	277.33	12/15/19	13.82	263.51	277.33							
P2		3/15/20	14.58	262.75	277.33							
P2		6/14/20	16.08	261.25	277.33							
P2		9/13/20	18.30	259.03	277.33							
P2		12/13/20	16.29	261.04	277.33							
P2		3/17/21	14.82	262.51	277.33							
P2		6/22/21	17.06	260.27	277.33							
P2		9/21/21	20.03	257.30	277.33							
P3	275.71	8/30/07	17.67	258.04	275.71							
P3		9/24/07	17.04	258.67	275.71							
P3		10/31/07	15.43	260.28	275.71							
P3		11/29/07	12.57	263.14	275.71							
P3		12/24/07	12.32	263.39	275.71							
P3		2/2/08	12.36	263.35	275.71							
P3		3/2/08	13.55	262.16	275.71							
P3		7/21/08	16.65	259.06	275.71							
P3		10/2/08	16.89	258.82	275.71							
P3		11/5/08	16.77	258.94	275.71							
P3		12/29/08	16.23	259.48	275.71							
P3		3/11/09	13.19	262.52	275.71							

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
P3		6/16/09	14.27	261.44	275.71							
P3		9/22/09	16.90	258.81	275.71							
P3		12/15/09	14.99	260.72	275.71							
P3		3/22/10	13.23	262.48	275.71							
P3		6/22/10	15.42	260.29	275.71							
P3		9/22/10	18.35	257.36	275.71							
P3		12/13/10	14.05	261.66	275.71							
P3		3/28/11	11.38	264.33	275.71							
P3		6/22/11	12.89	262.82	275.71							
P3		9/13/11	15.93	259.78	275.71							
P3		12/12/11	15.74	259.97	275.71							
P3		3/20/12	13.59	262.12	275.71							
P3		6/25/12	15.54	260.17	275.71							
P3		9/24/12	15.96	259.75	275.71							
P3		12/17/12	14.49	261.22	275.71							
P3		3/11/13	15.20	260.51	275.71							
P3		6/24/13	16.78	258.93	275.71							
P3		9/11/13	18.59	257.12	275.71							
P3		12/10/13	17.44	258.27	275.71							
P3		3/4/14	15.48	260.23	275.71							
P3		6/16/14	17.76	257.95	275.71							
P3		9/17/14	20.23	255.48	275.71							
P3		12/17/14	17.17	258.54	275.71							
P3		3/23/15	17.05	258.66	275.71							
P3		6/10/15	17.40	258.31	275.71							
P3		9/16/15	20.32	255.39	275.71							
P3		12/15/15	17.74	257.97	275.71							
P3		3/29/16	15.65	260.06	275.71							
P3		6/20/16	16.65	259.06	275.71							
P3		9/7/16	20.71	255.00	275.71							
P3		12/7/16	19.23	256.48	275.71							
P3		3/8/17	14.52	261.19	275.71							
P3		6/13/17	16.37	259.34	275.71							
P3		9/12/17	18.93	256.78	275.71							
P3		12/4/17	18.85	256.86	275.71							
P3		3/8/18	18.80	256.91	275.71							
P3		6/15/18	19.53	256.18	275.71							
P3		9/16/18	20.97	254.74	275.71							
P3	continued	12/16/18	18.98	256.73	275.71							
P3	275.71	3/18/19	14.30	261.41	275.71							
P3		5/13/19	16.30	259.41	275.71							
P3		9/15/19	17.81	257.90	275.71							
P3		12/15/19	18.65	257.06	275.71							
P3		3/15/19	18.20	257.51	275.71							
P3		6/14/20	17.62	258.09	275.71							
P3		9/13/20	22.33	253.38	275.71							
P3		12/13/20	20.66	255.05	275.71							
P3		3/17/21	19.24	256.47	275.71							
P3		6/22/21	21.26	254.45	275.71	26	20.5	6.70	425	1.11	21	303
P3		9/21/21	24.10	251.61	275.71	21	21.2	6.71	456	0.73	-15	324
P5B	265.51	8/30/07	8.23	257.28	265.51							
P5B		9/24/07	8.08	257.43	265.51							
P5B		10/31/07	7.29	258.22	265.51							
P5B		11/29/07	6.06	259.45	265.51							
P5B		12/24/07	5.44	260.07	265.51							

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
P5B		2/2/08	5.11	260.40	265.51							
P5B		3/2/08	5.59	259.92	265.51							
P5B		7/21/08	8.28	257.23	265.51							
P5B		10/2/08	8.96	256.55	265.51							
P5B		11/5/08	8.53	256.98	265.51							
P5B		12/29/08	7.19	258.32	265.51							
P5B		3/11/09	5.36	260.15	265.51							
P5B		6/16/09	6.51	259.00	265.51							
P5B		9/22/09	9.19	256.32	265.51							
P5B		12/15/09	7.08	258.43	265.51							
P5B		3/22/10	5.63	259.88	265.51							
P5B		6/22/10	6.96	258.55	265.51							
P5B		9/22/10	7.62	257.89	265.51							
P5B		12/13/10	5.79	259.72	265.51							
P5B		3/28/11	4.46	261.05	265.51							
P5B		6/22/11	5.91	259.60	265.51							
P5B		9/13/11	7.32	258.19	265.51							
P5B		12/12/11	6.31	259.20	265.51							
P5B		3/20/12	5.24	260.27	265.51							
P5B		6/25/12	7.16	258.35	265.51							
P5B		9/24/12	8.19	257.32	265.51							
P5B		12/17/12	6.08	259.43	265.51							
P5B		3/11/13	6.31	259.20	265.51							
P5B		6/24/13	8.24	257.27	265.51							
P5B		9/11/13	10.14	255.37	265.51							
P5B		12/10/13	6.54	258.97	265.51							
P5B		3/4/14	6.19	259.32	265.51							
P5B		6/16/14	8.78	256.73	265.51							
P5B		9/17/14	11.44	254.07	265.51							
P5B		12/17/14	8.11	257.40	265.51							
P5B		3/23/15	7.37	258.14	265.51							
P5B		6/10/15	8.19	257.32	265.51							
P5B		9/16/15	11.06	254.45	265.51							
P5B		12/15/15	8.51	257.00	265.51							
P5B		3/29/16	6.02	259.49	265.51							
P5B		6/20/16	7.88	257.63	265.51							
P5B		9/7/16	9.66	255.85	265.51							
P5B		12/7/16	7.24	258.27	265.51							
P5B		3/8/17	4.51	261.00	265.51							
P5B		6/13/17	5.83	259.68	265.51							
P5B		9/12/17	7.65	257.86	265.51							
P5B	continued	12/4/17	6.84	258.67	265.51							
P5B	265.51	3/8/18	6.60	258.91	265.51							
P5B		6/15/18	7.85	257.66	265.51							
P5B		9/16/18	8.89	256.62	265.51							
P5B		12/16/18	6.76	258.75	265.51							
P5B		3/18/19	4.63	260.88	265.51							
P5B		5/13/19	6.09	259.42	265.51							
P5B		9/16/19	8.34	257.17	265.51							
P5B		12/16/19	6.44	259.07	265.51							
P5B		3/16/19	5.31	260.20	265.51							
P5B		6/14/20	6.69	258.82	265.51							
P5B		9/13/20	9.83	255.68	265.51							
P5B		12/13/20	8.45	257.06	265.51							
P5B		3/17/21	6.82	258.69	265.51							

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

			Field Measurements									
Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
P5B		6/22/21	8.92	256.59	265.51	9	17.6	6.76	347	1.2	127	247
P5B		9/21/21	11.65	253.86	265.51	3	19.1	6.58	324	2.07	99	231
MW7	268.29	3/2/08	9.93	248.43	258.36							
MW7		7/21/08	12.63	243.03	255.66							
MW7		10/2/08	13.16	241.97	255.13							
MW7		11/5/08	12.73	242.83	255.56							
MW7		12/20/08	11.98	244.33	256.31							
MW08-1	258.16	9/22/09	5.59	252.57	258.16							
MW08-1		12/15/09	3.46	254.70	258.16							
MW08-1		3/22/10	2.54	255.62	258.16							
MW08-1		6/22/10	3.79	254.37	258.16							
MW08-1		9/22/10	4.43	253.73	258.16							
MW08-1		12/13/10	2.22	255.94	258.16							
MW08-1		3/28/11	1.64	256.52	258.16							
MW08-1		9/13/11	4.20	253.96	258.16							
MW08-1		3/20/12	1.79	256.37	258.16							
MW08-1		9/24/12	5.76	252.40	258.16							
MW08-1		3/11/13	2.69	255.47	258.16							
MW08-1		6/24/13	5.18	252.98	258.16							
MW08-1		9/11/13	8.35	249.81	258.16							
MW08-1		3/4/14	2.40	255.76	258.16							
MW08-1		6/16/14	4.93	253.23	258.16							
MW08-1		9/17/14	7.32	250.84	258.16							
MW08-1		12/17/14	4.67	253.49	258.16							
MW08-1		3/23/15	3.40	254.76	258.16							
MW08-1		6/10/15	4.69	253.47	258.16							
MW08-1		9/16/15	6.93	251.23	258.16							
MW08-1		12/15/15	5.00	253.16	258.16							
MW08-1		3/29/16	2.77	255.39	258.16							
MW08-1		6/20/16	4.69	253.47	258.16							
MW08-1		9/7/16	6.08	252.08	258.16							
MW08-1		12/7/16	3.63	254.53	258.16							
MW08-1		3/8/17	2.14	256.02	258.16							
MW08-1		6/13/17	3.46	254.70	258.16							
MW08-1		9/12/17	5.02	253.14	258.16							
MW08-1		12/4/17	3.39	254.77	258.16							
MW08-1		3/8/18	2.86	255.30	258.16							
MW08-1		6/15/18	5.36	252.80	258.16							
MW08-1		9/16/18	5.57	252.59	258.16							
MW08-1		12/16/18	3.90	254.26	258.16							
MW08-1		3/18/19	2.33	255.83	258.16							
MW08-1		5/10/19	3.50	254.66	258.16							
MW08-1		9/15/19	5.32	252.84	258.16							
MW08-1	continued	12/15/19	2.86	255.30	258.16							
MW08-1	258.16	3/15/20	2.27	255.89	258.16							
MW08-1		6/14/20	4.07	254.09	258.16							
MW08-1		9/13/20	6.18	251.98	258.16							
MW08-1		12/13/20	4.75	253.41	258.16							
MW08-1		3/16/21	2.94	255.22	258.16							
MW08-1		6/20/21	3.65	254.51	258.16							
MW08-1		9/21/21	7.81	250.35	258.16							

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL *(2nd MCL or Ag-use threshold if shaded)*		0.00				*6.5-8.4*	*700*			
MW08-2A	262.33	9/22/09	14.63	247.70	262.33							
MW08-2A	Deep Well	12/15/09	14.21	248.12	262.33							
MW08-2A		3/22/10	8.59	253.74	262.33							
MW08-2A		6/22/10	9.42	252.91	262.33							
MW08-2A		9/22/10	12.01	250.32	262.33							
MW08-2A		12/13/10	9.45	252.88	262.33							
MW08-2A		3/28/11	7.01	255.32	262.33							
MW08-2A		9/13/11	10.59	251.74	262.33							
MW08-2A		3/20/12	7.63	254.70	262.33							
MW08-2A		9/24/12	11.71	250.62	262.33							
MW08-2A		3/11/13	7.95	254.38	262.33							
MW08-2A		6/24/13	9.91	252.42	262.33							
MW08-2A		9/11/13	12.60	249.73	262.33							
MW08-2A		3/4/14	10.26	252.07	262.33							
MW08-2A		6/16/14	10.65	251.68	262.33							
MW08-2A		9/17/14	14.90	247.43	262.33							
MW08-2A		12/17/14	14.78	247.55	262.33							
MW08-2A		3/23/15	10.04	252.29	262.33							
MW08-2A		6/10/15	11.02	251.31	262.33							
MW08-2A		9/16/15	15.35	246.98	262.33							
MW08-2A		12/15/15	15.33	247.00	262.33							
MW08-2A		3/29/16	8.95	253.38	262.33							
MW08-2A		6/20/16	10.80	251.53	262.33							
MW08-2A		9/7/16	14.12	248.21	262.33							
MW08-2A		12/7/16	12.65	249.68	262.33							
MW08-2A		3/8/17	NM	NM	262.33							
MW08-2A		6/13/17	8.39	253.94	262.33							
MW08-2A		9/12/17	10.78	251.55	262.33							
MW08-2A		12/4/17	9.43	252.90	262.33							
MW08-2A		3/8/18	7.87	254.46	262.33							
MW08-2A		6/15/18	8.33	254.00	262.33							
MW08-2A		9/16/18	10.89	251.44	262.33							
MW08-2A		12/16/18	10.13	252.20	262.33							
MW08-2A		3/18/19	6.99	255.34	262.33							
MW08-2A		5/10/19	7.15	255.18	262.33							
MW08-2A		9/16/19	10.67	251.66	262.33							
MW08-2A		12/16/19	9.41	252.92	262.33							
MW08-2A		3/16/20	8.13	254.20	262.33							
MW08-2A		6/14/20	8.82	253.51	262.33							
MW08-2A		9/13/20	12.95	249.38	262.33							
MW08-2A		12/13/20	13.41	248.92	262.33							
MW08-2A		3/16/21	9.80	252.53	262.33							
MW08-2A		6/20/21	11.63	250.70	262.33							
MW08-2A		9/19/21	15.67	246.66	262.33							
MW08-2B	262.36	9/22/09	15.00	247.36	262.36							
MW08-2B		12/15/09	14.30	248.06	262.36							
MW08-2B		3/22/10	5.43	256.93	262.36							
MW08-2B		6/22/10	8.70	253.66	262.36							
MW08-2B		9/22/10	12.09	250.27	262.36							
MW08-2B		12/13/10	7.61	254.75	262.36							
MW08-2B		3/28/11	3.87	258.49	262.36							
MW08-2B		9/13/11	10.13	252.23	262.36							
MW08-2B		3/20/12	4.45	257.91	262.36							

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
MW08-2B	continued	9/24/12	12.72	249.64	262.36							
MW08-2B	260.36	3/11/13	6.37	255.99	262.36							
MW08-2B		6/24/13	10.65	251.71	262.36							
MW08-2B		9/11/13	13.91	248.45	262.36							
MW08-2B		3/4/14	9.22	253.14	262.36							
MW08-2B		6/16/14	11.25	251.11	262.36							
MW08-2B		9/17/14	15.36	247.00	262.36							
MW08-2B		12/17/14	15.16	247.20	262.36							
MW08-2B		3/23/15	7.91	254.45	262.36							
MW08-2B		6/10/15	11.39	250.97	262.36							
MW08-2B		9/16/15	15.80	246.56	262.36							
MW08-2B		12/15/15	15.47	246.89	262.36							
MW08-2B		3/29/16	5.31	257.05	262.36							
MW08-2B		6/20/16	10.59	251.77	262.36							
MW08-2B		9/7/16	14.53	247.83	262.36							
MW08-2B		12/7/16	13.30	249.06	262.36							
MW08-2B		3/8/17	NM	NM	262.36							
MW08-2B		6/13/17	7.74	254.62	262.36							
MW08-2B		9/12/17	11.47	250.89	262.36							
MW08-2B		12/4/17	9.08	253.28	262.36							
MW08-2B		3/9/18	5.95	256.41	262.36							
MW08-2B		6/15/18	8.63	253.73	262.36							
MW08-2B		9/16/18	11.92	250.44	262.36							
MW08-2B		12/16/18	10.11	252.25	262.36							
MW08-2B		3/18/19	4.87	257.49	262.36							
MW08-2B		5/10/19	6.90	255.46	262.36							
MW08-2B		9/16/19	11.83	250.53	262.36							
MW08-2B		12/16/19	9.26	253.10	262.36							
MW08-2B		3/16/20	7.20	255.16	262.36							
MW08-2B		6/14/20	9.32	253.04	262.36							
MW08-2B		9/13/20	13.56	248.80	262.36							
MW08-2B		12/13/20	13.24	249.12	262.36							
MW08-2B		3/16/21	7.63	254.73	262.36							
MW08-2B		6/20/21	11.92	250.44	262.36							
MW08-2B		9/19/21	15.20	247.16	262.36							
MW08-3	268.76	9/22/09	12.05	256.71	268.76							
MW08-3		12/15/09	8.81	259.95	268.76							
MW08-3		3/22/10	3.93	264.83	268.76							
MW08-3		6/22/10	6.95	261.81	268.76							
MW08-3		9/22/10	9.13	259.63	268.76							
MW08-3		12/13/10	4.08	264.68	268.76							
MW08-3		3/28/11	3.20	265.56	268.76							
MW08-3		9/13/11	8.85	259.91	268.76							
MW08-3		3/20/12	3.37	265.39	268.76							
MW08-3		9/24/12	10.45	258.31	268.76							
MW08-3		3/11/13	4.52	264.24	268.76							
MW08-3		6/24/13	9.13	259.63	268.76							
MW08-3		9/11/13	11.21	257.55	268.76							
MW08-3		3/4/14	5.27	263.49	268.76							
MW08-3		6/16/14	9.47	259.29	268.76							
MW08-3		9/17/14	12.80	255.96	268.76							
MW08-3		12/17/14	8.86	259.90	268.76							
MW08-3		3/23/15	6.19	262.57	268.76							
MW08-3		6/10/15	8.85	259.91	268.76							
MW08-3		9/16/15	12.89	255.87	268.76							

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
MW08-3		12/15/15	11.14	257.62	268.76							
MW08-3		3/29/16	3.73	265.03	268.76							
MW08-3		6/20/16	8.24	260.52	268.76							
MW08-3		9/7/16	11.63	257.13	268.76							
MW08-3		12/7/16	8.23	260.53	268.76							
MW08-3		3/8/17	3.25	265.51	268.76							
MW08-3		6/13/17	6.76	262.00	268.76							
MW08-3	continued	9/12/17	9.83	258.93	268.76							
MW08-3	268.76	12/4/17	7.31	261.45	268.76							
MW08-3		3/8/18	4.06	264.70	268.76							
MW08-3		6/15/18	7.30	261.46	268.76							
MW08-3		9/16/18	10.49	258.27	268.76							
MW08-3		12/16/18	8.63	260.13	268.76							
MW08-3		3/18/19	3.32	265.44	268.76							
MW08-3		5/10/19	5.40	263.36	268.76							
MW08-3		9/16/19	10.55	258.21	268.76							
MW08-3		12/16/19	6.85	261.91	268.76							
MW08-3		3/16/20	4.61	264.15	268.76							
MW08-3		6/14/20	7.65	261.11	268.76							
MW08-3		9/13/20	10.48	258.28	268.76							
MW08-3		12/13/20	9.80	258.96	268.76							
MW08-3		3/16/21	4.72	264.04	268.76							
MW08-3		6/20/21	10.01	258.75	268.76							
MW08-3		9/19/21	12.59	256.17	268.76							
MW08-4A	280.06	9/22/09	20.00	260.06	280.06							
MW08-4A	Deep Well	12/15/09	17.55	262.51	280.06							
MW08-4A		3/22/10	13.75	266.31	280.06							
MW08-4A		6/22/10	14.82	265.24	280.06							
MW08-4A		9/22/10	17.89	262.17	280.06							
MW08-4A		12/13/10	14.74	265.32	280.06							
MW08-4A		3/28/11	10.49	269.57	280.06							
MW08-4A		9/13/11	15.57	264.49	280.06							
MW08-4A		3/20/12	13.00	267.06	280.06							
MW08-4A		9/24/12	18.42	261.64	280.06							
MW08-4A		3/11/13	14.59	265.47	280.06							
MW08-4A		6/24/13	16.29	263.77	280.06							
MW08-4A		9/11/13	20.05	260.01	280.06							
MW08-4A		3/4/14	14.92	265.14	280.06							
MW08-4A		6/16/14	16.28	263.78	280.06							
MW08-4A		9/17/14	22.16	257.90	280.06							
MW08-4A		12/17/14	18.01	262.05	280.06							
MW08-4A		3/23/15	15.04	265.02	280.06							
MW08-4A		6/10/15	15.46	264.60	280.06							
MW08-4A		9/16/15	21.60	258.46	280.06							
MW08-4A		12/15/15	17.36	262.70	280.06							
MW08-4A		3/29/16	12.86	267.20	280.06							
MW08-4A		6/20/16	14.88	265.18	280.06							
MW08-4A		9/7/16	19.68	260.38	280.06							
MW08-4A		12/7/16	15.53	264.53	280.06							
MW08-4A		3/8/17	11.68	268.38	280.06							
MW08-4A		6/13/17	13.87	266.19	280.06							
MW08-4A		9/12/17	15.75	264.31	280.06							
MW08-4A		12/4/17	14.02	266.04	280.06							
MW08-4A		3/8/18	13.57	266.49	280.06							
MW08-4A		6/15/18	14.08	265.98	280.06							

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				*6.5-8.4*	*700*			
MW08-4A		9/16/18	16.60	263.46	280.06							
MW08-4A		12/16/18	16.60	263.46	280.06							
MW08-4A		3/18/19	11.93	268.13	280.06							
MW08-4A		5/10/19	14.70	265.36	280.06							
MW08-4A		9/15/19	16.28	263.78	280.06							
MW08-4A		12/15/19	13.68	266.38	280.06							
MW08-4A	280.06	3/15/19	14.15	265.91	280.06							
MW08-4A		6/14/20	14.34	265.72	280.06							
MW08-4A		9/13/20	18.95	261.11	280.06							
MW08-4A		12/13/20	17.37	262.69	280.06							
MW08-4A		3/16/21	14.33	265.73	280.06							
MW08-4A		6/22/21	16.23	263.83	280.06							
MW08-4A		9/19/21	21.74	258.32	280.06							
MW08-4B	279.56	9/22/09	18.94	260.62	279.56							
MW08-4B		12/15/09	17.09	262.47	279.56							
MW08-4B		3/22/10	13.27	266.29	279.56							
MW08-4B		6/22/10	14.34	265.22	279.56							
MW08-4B		9/22/10	17.40	262.16	279.56							
MW08-4B		12/13/10	14.26	265.30	279.56							
MW08-4B		3/28/11	10.01	269.55	279.56							
MW08-4B		9/13/11	15.09	264.47	279.56							
MW08-4B	continued	3/20/12	12.50	267.06	279.56							
MW08-4B	277.56	9/24/12	17.93	261.63	279.56							
MW08-4B		3/11/13	14.11	265.45	279.56							
MW08-4B		6/24/13	15.81	263.75	279.56							
MW08-4B		9/11/13	18.98	260.58	279.56							
MW08-4B		3/4/14	14.45	265.11	279.56							
MW08-4B		6/16/14	15.80	263.76	279.56							
MW08-4B		9/17/14	18.97	260.59	279.56							
MW08-4B		12/17/14	17.58	261.98	279.56							
MW08-4B		3/23/15	14.57	264.99	279.56							
MW08-4B		6/10/15	14.98	264.58	279.56							
MW08-4B		9/16/15	18.93	260.63	279.56							
MW08-4B		12/15/15	16.91	262.65	279.56							
MW08-4B		3/29/16	12.41	267.15	279.56							
MW08-4B		6/20/16	14.41	265.15	279.56							
MW08-4B		9/7/16	18.92	260.64	279.56							
MW08-4B		12/7/16	15.06	264.50	279.56							
MW08-4B		3/8/17	11.19	268.37	279.56							
MW08-4B		6/13/17	13.38	266.18	279.56							
MW08-4B		9/12/17	15.23	264.33	279.56							
MW08-4B		12/4/17	13.53	266.03	279.56							
MW08-4B		3/8/18	13.09	266.47	279.56							
MW08-4B		6/15/18	14.08	265.98	280.06							
MW08-4B		9/16/18	17.42	262.64	280.06							
MW08-4B		12/16/18	16.12	263.94	280.06							
MW08-4B		3/18/19	11.46	268.10	279.56							
MW08-4B		5/10/19	13.23	266.33	279.56							
MW08-4B		9/15/19	15.80	263.76	279.56							
MW08-4B		12/15/19	13.20	266.36	279.56							
MW08-4B		3/15/19	13.65	265.91	279.56							
MW08-4B		6/14/20	13.89	265.67	279.56							
MW08-4B		9/13/20	18.45	261.11	279.56							
MW08-4B		12/13/20	16.89	262.67	279.56							
MW08-4B		3/16/21	13.84	265.72	279.56							

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
MW08-4B	continued	6/22/21	15.78	263.78	279.56							
MW08-4B	277.56	9/19/21	18.96	260.60	279.56							
Sutter Creek Sample Points												
SC2	Five Mile	7/31/03		256.98	256.98							
SC2	Bridge	8/31/03		256.72	256.72							
SC2	281.11	9/30/03		256.56	256.56							
SC2		10/31/03		256.45	256.45							
SC2		11/30/03		257.55	257.55							
SC2		12/31/03		258.00	258.00							
SC2		1/31/04		257.64	257.64							
SC2		2/20/04		258.45	258.45							
SC2		3/31/04		257.42	257.42							
SC2		5/2/04		257.76	257.76							
SC2		6/1/04		257.61	257.61							
SC2		6/30/04		257.29	257.29							
SC2		7/31/04		256.79	256.79							
SC2		9/4/04		256.28	256.28							
SC2		10/1/04		255.95	255.95							

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
SC2		10/4/05										
SC2		9/6/06										
SC2		6/29/07										
SC2		8/28/07										
SC2		10/30/08										
SC2		12/29/08										
SC2		3/12/09					11.2	7.38	246	10.59		
SC2		6/16/09	25.24	255.87	255.87		23.9	7.47	386	10.42		
SC2		9/23/09					21.4	7.21	503	7.71	89.1	326
SC2		12/16/09										
SC2		3/22/10	24.53	256.58	256.58		16.06	8.31	278	12.03	112.7	181
SC2		6/22/10	24.78	256.33	256.33	24.78	29.26	7.35	461	6.92	44.4	0.3
SC2		9/22/10					16.09	7.10	348	10.29	276.0	226
SC2		12/13/10					12.77	7.39	262	9.34	63.7	170
SC3		3/28/11	22.18	258.93	258.93		14.78	7.14	136	10.18	-158.3	86
SC2	continued	6/22/11					24.62	7.43	227	8.75	126.9	147
SC2	281.11	9/13/11					23.15	7.69	364	8.67	70.3	236
SC2		12/14/11					8.09	7.66	244	12.97	1.9	162
SC2		3/22/12					12.98	6.67	101	9.04	117.4	117
SC2		6/25/12					21.36	7.90	283	9.35	192.4	184
SC2		9/25/12					21.97	7.32	393	16.17	41.4	255
SC2		12/18/12					9.09	8.01	182	11.45	60.4	119
SC2		3/11/13					13.05	7.40	253	11.14	100.9	164
SC2		6/27/13					27.61	7.91	445	4.81	126.3	239
SC3	Adjacent	6/28/03		257.00	257.00							
SC3	MW 2	7/31/03		256.82	256.82							
SC3		8/31/03		256.62	256.62							
SC3		9/30/03		256.46	256.46							
SC3		10/31/03		256.32	256.32							
SC3		11/30/03		257.46	257.46							
SC3		12/31/03		257.60	257.60							
SC3		1/31/04		257.59	257.59							
SC3		2/20/04		258.00	258.00							
SC3		3/31/04		257.34	257.34							
SC3		5/2/04		257.70	257.70							
SC3		6/1/04		257.55	257.55							
SC3		6/30/04		257.20	257.20							
SC3		7/31/04		256.70	256.70							
SC3		9/4/04		256.18	256.18							
SC3		10/1/04		255.87	255.87							
SC3		1/4/05		258.20	258.20							
SC3		4/1/05		258.34	258.34							
SC3		6/30/05		257.80	257.80							
SC3		10/6/05		257.13	257.13							
SC3		2/10/06										
SC3		5/26/06										
SC3		9/6/06										
SC3		12/13/06										
SC3		3/14/07										
SC3		6/29/07										
SC3		8/28/07										
SC3		12/31/07										
SC3		10/30/08										

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

			Field Measurements									
Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
SC4	Utility	6/28/03		258.70	258.70							
SC4	Bridge	7/31/03		258.87	258.87							
SC4	278.35	8/31/03		258.69	258.69							
SC4		9/30/03		258.25	258.25							
SC4		10/31/03		258.79	258.79							
SC4		11/30/03		259.04	259.04							
SC4		12/31/03		260.32	260.32							
SC4		1/31/04		259.86	259.86							
SC4	continued	2/20/04		258.73	258.73							
SC4	278.35	3/31/04		261.10	261.10							
SC4		5/2/04		259.40	259.40							
SC4		6/1/04		258.98	258.98							
SC4		6/30/04		258.90	258.90							
SC4		7/31/04		259.32	259.32							
SC4		9/4/04		259.02	259.02							
SC4		10/1/04		258.83	258.83							
SC4		10/4/05										
SC4		9/6/06										
SC4		6/29/07										
SC4		12/29/08										
SC4		3/12/09					12.1	7.56	231	10.52		
SC4		6/16/09	19.72	258.63	258.63		24.4	7.12	426	12.37		
SC4		9/23/09					19.6	7.26	451	6.07	5.2	293
SC4		12/16/09										
SC4		3/22/10	18.92	259.43	259.43		16.37	8.60	313	11.97	122.3	205
SC4		6/22/10	19.49	258.86	258.86	19.49	25.97	7.45	330	6.91	60.5	0.215
SC4		9/22/10					18.46	7.26	432	6.24	148.5	281
SC4		12/13/10					12.15	7.82	256	13.84	63.8	166
SC4		3/28/11	16.42	261.93	261.93		12.96	6.87	151	11.14	-123.3	98
SC4		6/22/11					25.11	7.80	224	8.14	68.6	145
SC4		9/13/11					23.03	7.61	304	8.47	68.4	197
SC4		12/14/11					6.83	6.22	248	12.43	-30.0	167
SC4		3/22/12					13.19	5.61	199	8.83	129.9	129
SC4		6/25/12					20.28	7.57	286	9.27	204.5	186
SC4		9/25/12					21.28	7.40	351	14.93	15.4	227
SC4		12/18/12					9.33	7.79	179	11.48	50.9	115
SC4		3/11/13					13.43	7.38	248	9.41	71.9	161
SC4		6/27/13					27.81	7.83	349	5.17	166.9	226
SC4+		8/28/07										
SC4+		10/30/08										
SC6		10/14/04										
SC6		10/4/05										
SC6		6/29/07										
SC6		8/28/07										
SC6		10/30/08										

Table 1

Historical Groundwater Quality Data

City of Ione - Wastewater Treatmetn Facility

Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
			Field Measurements									
		Analysis Method:	*Probe*	*Calculated*	*Surveyed*	*Measured*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*	*Metered*
		Practical Quantitation Limit										
		Minimum Detection Limit										
		Units:	*ft*	*ft. msl*	*ft. msl*	*gal*	*deg C*	*std units*	*umhs/cm*	*mg/L*	*Mv*	*mg/L*
		MCL (2nd MCL or Ag-use threshold if shaded)		0.00				*6.5-8.4*	*700*			
Water Wells												
Scully Well #1		1/20/06										
Scully Well #1		6/1/06										
Scully Well #1		9/19/06										
Scully Well #1		12/12/06										
Scully Well #1		3/23/07										
Scully Well #1		6/26/07										
Scully Well #1		9/28/07										
Scully Well #1*		3/22/10	Not Measured			724.5	17.15	6.8	535	1.20	-0.1	
Scully Well #2		1/20/06										
Scully Well #2*		3/22/10	Not Measured			870	17	6.62	433	1.15	41.4	
Sparrowk Well		1/20/06										

Notes:

Negative (-) values indicate less than the detection limit

P-3 TOC elevation is ground surface.

[1] The Nitrate-N tabulation column includes analyses results for Nitrate-N +Nitrite-N.

* March 22, 2010 metals results for dissolved constituents

() MW4A well collar was modified in Summer 2010. Hydrograph indicates collar is less than 0.1 foot lower than originally surveyed.

^ Total Nitrogen starting 4th Quarter 2013 is Laboratory Calculated (annually).

~ Condor's Calculation.

	Green shaded cells indicate questionable or qualified analyses (e.g. exceeded hold time)
	Blue shaded cells indicate estimated value detected above minimum detection level but below practical quantitation limit.
	Yellow shaded cells indicate estimated value detected above 2nd MCLs or Ag-use threshold

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL (2nd MCL or Ag-use threshold if shaded)			*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
Background Wells																				
MW1	274.17	7/16/02	23	-2	2.40	3.8		6.2	190	6.3	10.0						0.160		-0.030	
MW1		9/18/02																		
MW1		10/29/02																		
MW1		11/22/02																		
MW1		12/31/02																		
MW1		1/21/03																		
MW1		6/30/03	-2	-2	0.55	-1.0		1.1	162	6.6	8.7				-0.01		0.81		0.020	
MW1		7/31/03																		
MW1		8/31/03																		
MW1		9/30/03	-2	-2	0.51	-1.0		1.0	143	6.7	8.2				-0.10		1.12		0.040	
MW1		10/31/03																		
MW1		11/30/03																		
MW1		12/31/03	-2	-2	0.74	-1.0		1.2	170	8.5	8.6				-0.10		0.09		-0.020	
MW1		1/31/04																		
MW1		2/20/04																		
MW1		3/31/04	23	-2	1.70	-1.0		2.2	217	8.4	9.2				-0.10		-0.05		-0.020	
MW1		5/2/04																		
MW1		6/1/04																		
MW1		6/30/04	-2	-2	1.20	-1.0		1.7	187	7.2	8.8				-0.10		0.31		-0.020	
MW1		7/31/04																		
MW1		9/4/04																		
MW1		10/1/04	-2	-2	0.82	3.4		4.2	273	9.9	14.0				0.10		41.50		0.870	
MW1		10/12/04	-2	-2	1.20	-1.0		1.7	213	8.3	9.2				-0.10		4.72		0.100	
MW1		1/4/05	-2	-2	1.50	-1.0		2.0	196	9.8	9.6		-0.002		-0.10		1.01		-0.020	
MW1		4/1/05	-2	-2	2.70	-1.0		3.2	210	8.9	9.2		-0.002		-0.10		0.24		-0.020	
MW1		6/30/05	-2	-2	3.00	-1.0		3.5	191	8.1	9.0		-0.002		0.05		0.08		-0.020	
MW1		10/6/05																		
MW1		10/11/05	-2	-2	1.30	-1.0		1.8	175	7.0	9.9		-0.002		-0.05		0.13		-0.020	
MW1		1/17/06																		
MW1		2/9/06	-2	-2	2.00	-1.0		2.5	158	9.0	10.7		-0.001		0.09		0.06		-0.020	

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL		*(2nd MCL or Ag-use threshold if shaded)*	*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW1	Continued	3/10/06																		
MW1	274.17	4/29/06																		
MW1		5/23/06	2	-2	3.80	-1.0		4.3	215	7.2	9.5		-0.002		-0.05		0.32		-0.020	
MW1		6/30/06																		
MW1		7/25/06																		
MW1		8/24/06	-2	-2	2.20	-1.0		2.7	239	8.0	11.0		-0.002		0.05		0.83		0.036	
MW1		9/29/06																		
MW1		10/24/06																		
MW1		11/30/06																		
MW1		12/12/06	30	-2	0.99	-1.0		1.5	165	6.8	9.5		-0.002		0.06		0.310		0.020	
MW1		12/29/06																		
MW1		1/31/07																		
MW1		2/27/07																		
MW1		3/13/07	-2		0.81	-1.0		1.3	185	7.5	8.4		-0.002		0.06		0.130		-0.020	
MW1		3/30/07																		
MW1		4/30/07																		
MW1		5/31/07																		
MW1		6/25/07	2		0.84	-1.0		1.3	168	6.3	8.9		-0.002		0.06		0.036		-0.005	
MW1		7/29/07																		
MW1		8/30/07																		
MW1		9/27/07	-2	-2	0.99	-1.0		1.5	156	6.7	9.8		-0.002		-0.05		0.170	-0.020	0.007	-0.005
MW1		12/27/07	-2	-2	0.84	-1.0		1.3	232	10.0	9.8		-0.002		0.05		1.90	-0.020	0.077	-0.005
MW1		2/2/08																		
MW1		3/2/08																		
MW1		7/7/08	-2	-2	0.66	-1.0		1.2	170	8.8	8.9		-0.002		0.068		0.620	-0.020	0.017	-0.005
MW1		10/10/08	-2	-2	0.93	-1.0		1.4	186	9.3	8.5		-0.002		0.06		0.325	-0.020	0.0097	-0.005
MW1		11/5/08																		
MW1		12/29/08	-1.1		0.93	-0.20		1.0	210	13	11		-0.050		0.059		1.60	0.031	0.046	0.0025
MW1		3/11/09	-1.1		0.86	0.071		0.9	200	8.9	9.9		0.0083		0.046		0.420	-0.050	0.013	-0.010
MW1		6/16/09	-2	-2	0.98	-0.20		1.1	190	8.2	10		-0.050		0.057		0.30	-0.050	0.0068	0.011
MW1		9/22/09	-2	-2	1.0	-0.20		1.1	160	6.5		9.0				0.065		0.022		0.011

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL		*(2nd MCL or Ag-use threshold if shaded)*	*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW1	Continued	12/15/09	-2	-2	1.1	0.11		1.2	150	6.9		8.3				0.054		-0.0093		-0.010
MW1	274.17	3/22/10	2.0	-2	1.2	1.80		3.0	190	7.6		10				0.052		0.0095		0.028
MW1		6/22/10	-2	-2	1.3	-0.056		1.3	200	6.1		7.5				0.055		-0.005		0.023
MW1		9/22/10	-2	-2	0.86	-0.056		0.9	210	5.6		9.1				0.063		-0.005		-0.001
MW1		12/13/10	-2	-2	0.61	-0.056		0.6	160	6.2		9.3				0.060		-0.005		-0.001
MW1		3/29/11	-2	-2	1.8	0.088		1.9	190	6.3		10				0.060		-0.005		-0.001
MW1		6/22/11	-2	-2	2.9	-0.056		2.9	200	6.6		9.9				0.057		-0.005		-0.001
MW1		9/13/11	-2		1.0	-0.056		1.0	160	6.5		9.7				0.060		0.012		-0.001
MW1		12/14/11	-2	-2	0.54	-0.056		0.6	160	6.5		9.4				0.056		0.012		-0.001
MW1		3/21/12	-2		0.58	-0.056		0.6	160	7.2		9.0				0.058		-0.005		-0.001
MW1		6/26/12	-2	-2	1.0	-0.056		1.0	160	6.5		9.0				0.065		0.0091		0.0020
MW1		9/27/12	-2		0.65	-0.056		0.7	180	6.5		8.7				0.055		-0.0050		0.0021
MW1		12/19/12	-2		0.58	-0.083		0.6	150	5.7		8.3				0.049		0.0050		-0.0010
MW1		3/11/13	-2		1.50	-0.083		1.5	190	7.2		9.5				0.051		-0.030		-0.0040
MW1		6/27/13	-2		0.66	-0.083		0.7	170	6.5		8.6				0.051		-0.030		-0.0040
MW1		9/12/13	-2		0.69		0.022	0.7	180									0.140		0.0088
MW1		12/11/13	-2		0.79	-0.053	-0.017	0.83^	150	7.6		8.4		-0.0092		0.053		0.340		0.140
MW1		3/4/14	4		1.50		0.019	~1.5	200									0.072		0.019
MW1		6/17/14	-2		0.91		-0.033	~0.9	230									-0.030		-0.0040
MW1		9/18/14	-2		0.87		-0.033	~0.9	180									0.047		-0.0040
MW1		12/18/14	130		1.9	0.056	-0.033	2.0^	180	9.5		9.1		-0.0092		0.048		-0.030		-0.0040
MW1		3/24/15	-2		1.9		-0.033	~1.9	220									-0.030		-0.0040
MW1		6/11/15	-2		1.2		-0.025	~1.2	220									-0.030		-0.0040
MW1		9/17/15	-2		1.0		-0.025	~1.0	220									-0.030		0.014
MW1		12/16/15	-1.8		2.2	-0.080	-0.025	2.2^	250	30		10		0.00040		0.047		0.140		0.0059
MW1		3/29/16	-1.8		1.8		-0.025	~1.8	230									-0.030		-0.0040
MW1		6/21/16	-1.8		2.0		-0.025	~2.0	210									-0.030		-0.0040
MW1		9/8/16	-1.8		0.80		-0.025	~0.8	210									-0.030		-0.0040
MW1		12/8/16	-1.8		1.2	0.60	0.032	1.8^	200	10		13		-0.00038		0.061		-0.030		0.0064

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Laboratory Analyses																		
			Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL (2nd MCL or Ag-use threshold if shaded)			*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW1		3/9/17	-1.8		3.5		-0.020	~3.5	250									0.110		0.022
MW1		6/14/17	-1.8		5.9		-0.020	~5.9	250									-0.030		-0.0040
MW1		9/13/17	-1.8		1.2		-0.020	~1.2	200									-0.030		-0.0040
MW1		12/5/17	70		0.64	-0.084	0.11	0.64^	160									-0.030		-0.0040
MW1		3/9/18	15		0.56		0.042	0.56^	200									-0.030		0.00038
MW1		6/15/18	4	4	1.50		-0.018	1.50^	220									-0.030		0.00380
MW1		9/17/18	21		0.52		0.066	1.6^	170									-0.030		0.0057
MW1		12/17/18	130		0.53	0.23	0.13	0.76^	160	7.4		8.6		-0.00038		0.038		-0.030		0.0028
MW1		3/18/19	21		1.1		0.071	1.2^	170									-0.030		0.0032
MW1		5/13/19	49		2.0		<0.067	2.0^	220									0.76		0.0020
MW1		9/16/19	920		0.52		<0.067	0.52^	160									-0.030		0.0061
MW1		12/16/19	220		0.30	0.23	<0.067	0.53^	160	6.8		9.3		-0.00038		0.049		-0.030		0.0022
MW1		3/16/20	920		0.38		<0.067	0.38^	150									0.046		0.0012
MW1		6/16/20	17		0.67		0.087	0.75^	160									<0.030		0.0023
MW1		9/14/20	40		0.45		<0.067	0.45^	160									<0.030		0.0051
MW1		12/15/20	24		0.79		0.12	1.1^	180	13.0		9.4		0.00094		0.059		<0.030		0.0019
MW1		3/16/21	<1.8		0.70		<0.067	1.1^	180									<0.030		0.0024
MW1		6/22/21	<1.8		0.51		0.097	0.6^	190									<0.030		0.0017
MW1		9/21/21	540		0.44		0.14	0.6^	200									<0.030		0.0032
MW1A	274.09	8/30/07																		
MW1A		9/24/07																		
MW1A		10/31/07																		
MW1A		11/29/07																		
MW1A		12/27/07	-2	-2	1.40	-1.0		1.9	301	29	25		-0.002		0.10		1.10	-0.020	0.070	0.014
MW1A		2/2/08																		
MW1A		3/2/08																		
MW1A		7/7/08	-2	-2	7.70	-1.0		8.2	283	16	19		-0.002		0.08		0.380	-0.020	0.015	-0.005
MW1A		10/10/08	-2	-2	1.60	-1.0		2.1	297	44	26		0.0022		0.11		6.31	-0.020	0.310	-0.005
MW1A		11/5/08																		
MW1A		12/29/08	2.2		3.20	0.098		3.3	290	28	27		-0.050		0.110		0.630	-0.072	0.033	0.00085
MW1A		3/11/09	> 1.1		3.90	0.08		4.0	270	14	19		0.0091		0.082		0.130	-0.050	0.015	-0.010
MW1A		6/16/09	-2	-2	3.0	-0.20		3.1	210	9.4	15		-0.050		0.078		0.049	-0.050	0.0038	-0.0025
MW1A		9/22/09	-2	-2	3.5	6.30		9.8	290	30		20				0.100		-0.0093		0.016
MW1A		12/15/09	2	-2	3.1	0.18		3.3	250	36		26				0.110		-0.0093		-0.010
MW1A		3/22/10	-2	-2	2.8	-0.20		2.9	250	13		18				0.078		-0.0093		0.0093
MW1A		6/22/10	-2	-2	3.8	-0.056		3.8	250	11		12				0.072		0.018		0.035
MW1A		9/22/10	-2	-2	3.5	-0.056		3.5	290	18		15				0.082		0.010		0.027
MW1A		12/13/10	-2	-2	2.3	-0.056		2.3	250	22		16				0.086		-0.005		0.016

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL		*(2nd MCL or Ag-use threshold if shaded)*	*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW1A	Continued	3/29/11	-2	-2	3.7	0.075		3.8	230	9.0		13				0.080		0.051		0.061
MW1A	274.09	6/22/11	-2	-2	1.6	-0.056		1.6	260	27		18				0.088		0.027		0.045
MW1A		9/13/11	-2		2.7	0.061		2.8	220	15		14				0.072		0.023		0.0088
MW1A		12/14/11	-2	-2	2.5	-0.056		2.5	220	8.8		12				0.067		0.015		0.014
MW1A		3/21/12	-2		1.6	-0.056		1.6	200	9.7		11				0.067		0.0057		0.011
MW1A		6/26/12	-2	-2	1.2	-0.056		1.2	210	19		14				0.075		0.018		0.016
MW1A		9/27/12	2.0		0.99	-0.056		1.0	220	28		14				0.073		0.0096		0.024
MW1A		12/19/12	-2		0.45	-0.083		0.5	230	35		20				0.080		0.0062		0.0079
MW1A		3/11/13	-2		1.1	-0.083		1.1	210	13		14				0.070		-0.030		0.0094
MW1A		6/27/13	-2		1.5	0.098		1.6	180	9.0		11				0.060		-0.030		0.0040
MW1A		9/12/13	-2		1.6		-0.017	1.6	200									0.097		0.016
MW1A		12/12/13	-2		1.4	-0.053	-0.017	1.4^	210	12		12		-0.0092		0.066		-0.030		0.0061
MW1A		3/4/14	4		2.7		0.021	~2.7	210									-0.030		0.0076
MW1A		6/17/14	-2		4.1		-0.033	~4.1	270									0.039		-0.0040
MW1A		9/18/14	-2		2.5		-0.033	~2.5	240									0.039		0.0071
MW1A		12/18/14	4.0		3.7	0.18	-0.033	3.9^	330	40		25		-0.0092		0.110		-0.030		-0.0040
MW1A		3/24/15	-2		4.8		-0.033	~4.8	280									-0.030		-0.0040
MW1A		6/11/15	2.0		5.8		-0.025	~5.8	310									-0.030		-0.0040
MW1A		9/17/15	-2		3.4		-0.025	~3.4	290									-0.030		-0.0040
MW1A		12/16/15	17		2.0	-0.080	-0.025	2.0^	310	60		24		0.00044		0.110		0.042		-0.0040
MW1A		3/29/16	280		5.6		-0.025	~5.6	270									-0.030		-0.0040
MW1A		6/21/16	-1.8		2.3		-0.025	~2.3	270									-0.030		-0.0040
MW1A		9/8/16	-1.8		0.79		0.025	~0.8	300									-0.030		-0.0040
MW1A		12/8/16	-1.8		0.33	-0.088	0.029	0.41^	330	56		33		-0.00038		0.130		-0.030		-0.0040
MW1A		3/9/17	49		8.30		-0.020	~8.3	300									-0.030		-0.0040
MW1A		6/14/17	-1.8		6.0		0.041	~6.0	280									-0.030		0.0049
MW1A		9/13/17	-1.8		8.8		0.028	~8.8	270									-0.030		-0.0040
MW1A		12/5/17	110		15	0.14	0.036	15^	310									-0.030		-0.0040
MW1A		3/9/18	10		12		0.14	12^	310									-0.030		0.00041
MW1A		6/15/18	130		1.2		-0.02	1.2^	290									-0.030		0.00068
MW1A		9/17/18	2.0		0.058		0.072	0.1^	300									-0.030		0.0069
MW1A		12/17/18	1600		2.4	0.21	0.068	2.6^	270	34		32		-0.00038		0.10		-0.030		0.0036
MW1A		3/18/19	130		3.0		0.11	3.1^	220									-0.030		0.0034
MW1A		5/13/19	2.0		2.8		0.11	2.9^	230									0.032		0.0043
MW1A		9/16/19	920		7.2		-0.067	7.2^	290									-0.030		0.0044
MW1A		12/16/19	920		6.0	0.32	-0.067	6.4^	270	39		30		-0.0038		0.10		-0.030		0.0034
MW1A		3/16/20	110		7.6		-0.067	7.6^	290									0.032		0.0056
MW1A		6/16/20	9.2		3.9		0.093	4.0^	250									0.035		0.012
MW1A		9/14/20	540		5.9		-0.067	5.9^	250									-0.030		0.0037
MW1A		12/15/20	170		3.5		0.12	3.6^	280	40		26		-0.0038		0.085		-0.030		0.0078
MW1A		3/17/21	2.0		3.5		-0.067	3.6^	330									-0.030		0.0055
MW1A		6/22/21	4.5		4.0		0.096	4.1^	310									-0.030		0.0012
MW1A		9/21/21	240		2.8		0.160	3.0^	320									-0.030		0.0021

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL (2nd MCL or Ag-use threshold if shaded)			*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
WWTP Wells																				
MW2	272.37	7/16/02	4	-2	-0.50	1.3		1.6	280	31	45						0.20		4.00	
MW2		9/18/02																		
MW2		10/29/02																		
MW2		11/22/02																		
MW2		12/31/02																		
MW2		1/21/03																		
MW2		6/30/03	-2	-2	-0.05	2.0		2.0	199	32	36				0.01		4.63		3.66	
MW2		7/31/03																		
MW2		8/31/03																		
MW2		9/30/03	-2	-2	-0.05	1.4		1.4	268	32	36				0.26		3.99		3.71	
MW2		10/31/03																		
MW2		11/30/03																		
MW2		12/31/03	13	-2	-0.05	1.8		1.8	262	32	36				0.22		3.32		4.22	
MW2		1/31/04																		
MW2		2/20/04																		
MW2		3/31/04	-2	-2	-0.05	2.0		2.0	304	35	38				0.21		3.06		4.74	
MW2		5/2/04																		
MW2		6/1/04																		
MW2		6/30/04	2	-2	-0.05	2.0		2.0	341	34	39				0.25		3.51		4.57	
MW2		7/31/04																		
MW2		9/4/04																		
MW2		10/1/04	50	-2	-0.05	2.0		2.0	297	36	40				0.26		3.62		5.20	
MW2		10/12/04	8	-2																
MW2		1/4/05	50	4	-0.05	2.0		2.0	293	36	39		0.0073		0.23		3.27		4.16	
MW2		4/1/05	220	57	-0.05	1.9		1.9	249	34	33		0.0046		0.20		2.70		3.66	
MW2		6/30/05	-2	-2	-0.05	1.8		1.8	240	30	31		0.0051		0.20		2.52		2.90	
MW2		10/6/05																		
MW2		10/14/05	-2	-2	-0.05	1.8		1.8	247	34	36		0.0061		0.22		2.37		2.82	
MW2		1/17/06																		
MW2		2/10/06	-2	-2	-0.05	1.9		1.9	228	34	34		0.005		0.26		1.91		2.26	
MW2		3/10/06																		
MW2		4/29/06																		
MW2		5/23/06	17	-2	-0.05	1.8		1.8	206	27	29		0.0055		0.17		2.02		2.53	

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL		*(2nd MCL or Ag-use threshold if shaded)*	*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW2	Continued	6/30/06																		
MW2	272.37	7/25/06																		
MW2		8/24/06	-2	-2	-0.05	1.7		1.7	223	25	32		0.0057		0.15		1.90		2.40	
MW2		9/29/06																		
MW2		10/24/06																		
MW2		11/30/06																		
MW2		12/12/06	-2	-2	-0.05	2.6		2.6	219	29	34		0.0064		0.22		2.10		2.90	
MW2		12/29/06																		
MW2		1/31/07																		
MW2		2/27/07																		
MW2		3/13/07	8		-0.05	2.0		2.0	196	33	33		0.0053		0.19		1.80		2.60	
MW2		3/30/07																		
MW2		4/30/07																		
MW2		5/31/07																		
MW2		6/25/07	-2		-0.05	1.7		1.7	218	30	31		0.0042		0.17		1.63		2.25	
MW2		7/29/07																		
MW2		8/30/07																		
MW2		9/27/07	-2	-2	-0.05	1.7		1.7	258	30	36		0.0064		0.16		1.90	1.40	2.70	2.60
MW2		10/31/07																		
MW2		11/29/07																		
MW2		12/26/07	2	-2	-0.05	2.2		2.2	349	35	40		0.0065		0.19		2.50	2.10	4.20	4.10
MW2		2/2/08																		
MW2		3/2/08																		
MW2		7/7/08	-2	-2	-0.05	2.4		2.4	289	34	39		0.0067		0.15		2.80	2.20	3.00	3.30
MW2		10/10/08	13	-2	-0.05	2.7		2.7	279	41	36		0.005		0.17		2.14	1.97	3.93	4.05
MW2		11/5/08																		
MW2		12/30/08	13	4	0.048	2.6		2.6	270	40	44		0.013		0.21		3.10	2.60	4.90	4.20
MW2		3/12/09	> 1.1		-0.10	2.5		2.6	260	42	41		0.011		0.210		2.60	0.32	5.000	3.90
MW2		6/16/09	-2	-2	0.055	3.2		3.3	260	39	42		0.033		0.19		69	0.025	5.10	3.10
MW2		9/22/09	-2	-2	-0.1	3.1		3.2	260	41		39				0.210		2.30		4.40
MW2		12/15/09	240	11	-0.1	2.7		2.8	260	43		37				0.220		2.30		3.90
MW2		3/22/10	50	4.0	-0.1	2.6		2.7	250	46		41				0.210		2.10		3.10
MW2		6/22/10	-2	-2	-0.014	2.6		2.6	270	52		37				0.190		2.20		3.30
MW2		9/22/10	-2	-2	0.035	3.1		3.1	320	43		41				0.200		2.20		4.50

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL		*(2nd MCL or Ag-use threshold if shaded)*	*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW2	continued	12/13/10	4	2	-0.014	3.2		3.2	260	41		43				0.220		2.30		4.10
MW2	272.37	3/29/11	130		0.05	2.7		2.8	270	35		43				0.200		2.00		4.70
MW2		6/23/11	-2		-0.014	2.8		2.8	270	40		42				0.170		2.20		4.30
MW2		9/14/11	-2		-0.021	3.2		3.2	300	39		46				0.200		2.30		4.60
MW2		12/14/11	-2	-2	-0.021	3.0		3.0	270	37		44				0.200		2.30		4.00
MW2		3/21/12	240		0.067	3.0		3.1	270	36		43				0.180		2.00		4.50
MW2		6/26/12	-2	-2	-0.021	3.2		3.2	280	40		44				0.180		2.10		3.30
MW2		9/27/12	50		-0.021	2.7		2.7	260	43		43				0.160		2.50		3.10
MW2		12/19/12	20		-0.021	2.9		2.9	270	42		44				0.180		2.40		5.20
MW2		3/11/13	-2		-0.021	3.1		3.1	270	44		48				0.180		2.80		4.70
MW2		6/26/13	-2		-0.025	3.1		3.1	300	52		44				0.160		3.20		4.70
MW2		9/11/13	-2		-0.025		3.2	3.2	320									3.00		5.00
MW2		12/11/13	2.0		-0.025	3.2	3.0	3.2^	300	53		45		-0.0092		0.170		2.90		4.90
MW2		3/5/14	-2		-0.025		3.2	~3.2	290									2.80		4.00
MW2		4/9/14							290									2.40		4.90
MW2		5/5/14							300									2.50		4.30
MW2		6/17/14	-2		-0.025		2.6	~2.6	290									2.60		3.10
MW2		7/16/14							300									2.70		4.50
MW2		8/20/14							370									2.60		3.60
MW2		9/18/14	7.0		-0.025		2.8	~2.8	280									2.80		3.40
MW2		10/30/14							290									2.40		3.10
MW2		11/21/14							290									2.60		3.40
MW2		12/18/14	130		-0.018	2.8	2.9	2.8^	300	47		45		-0.0092		0.160		2.50		4.20
MW2		3/24/15	-2		-0.018		2.2	~2.2	280									2.40		3.60
MW2		6/11/15	2		0.047		2.8	~2.8	290									2.40		3.50
MW2		9/17/15	-2		-0.018		2.5	~2.5	280									2.40		3.40
MW2		12/15/15	-1.8		-0.018	2.3	2.4	2.3^	300	45		39		0.0065		0.160		2.30		2.80
MW2		3/29/16	-1.8		-0.022		2.8	~2.8	280									2.10		3.10
MW2		6/20/16	-1.8		-0.022	2.5	2.7	2.5^	270									2.20		2.70
MW2		9/7/16	-1.8		0.042		2.4	~2.4	260									2.30		2.80
MW2		12/8/16	-1.8		-0.022	2.6	2.5	2.6^	310	47		48		0.0067		0.200		2.80		3.30
MW2		3/10/17	2.0		-0.022		3.7	~3.7	290									2.80		5.40
MW2		6/13/17	-1.8		-0.021		3.2	~3.2	250									2.50		4.40
MW2		9/13/17	-1.8		-0.021		3.2	~3.2	260									2.00		3.70
MW2		12/6/17	-1.8		-0.021	3.0	2.9	3.0^	270									1.90		3.10
MW2		3/9/18	9		-0.021		2.9	~2.9	280									-0.03		2.4
MW2		6/15/18	920	920	-0.021		3.0	~3.0	280									-0.03		3.2
MW2		9/17/18	49		-0.021		3.6	~3.6	290									0.046		3.7

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL (2nd MCL or Ag-use threshold if shaded)			*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW2		12/17/18	33		0.030	3.2	3.4	3.2^	280	41		42		0.0019		0.14		-0.030		3.2
MW2		3/18/19	110		-0.042		3.2	~3.2	290									0.20		4.6
MW2		5/13/19	1600		-0.042		3.5	3.5^	310									0.24		5.2
MW2		9/16/19	920		-0.042		3.5	3.5^	300					0.0046		0.16		0.36		4.7
MW2		12/16/19	920		-0.025		3.6	3.9^	300	42		45		0.0046		0.16		0.36		4.7
MW2		3/16/19	920		0.046		3.3	3.3^	310									0.16		7.3
MW2		6/16/20	70		-0.024		3.1	3.1^	290									0.49		4.3
MW2		9/14/20	14		0.077		2.8	2.9^	300									-0.030		3.8
MW2		12/15/20	540		0.047		2.6	3.0^	300	45		39		0.0032		0.15		0.11		3.1
MW2		3/17/21	4.5		0.14		2.8	3.0^	300									0.081		3.3
MW2		6/22/21	1.8		0.10		2.5	2.5^	290									-0.030		2.9
MW2		9/21/21	280		0.10		2.5	2.6^	370									-0.030		6.5
MW2A	276.26	9/12/13	2.0		-0.025		4.8	4.8	270									15.00		4.10
MW2A		12/11/13	50		-0.025	5.2	4.6	5.2^	270	40		44		*0.019*		0.160		15.00		4.20
MW2A		3/5/14	-2		-0.025		4.5	~4.5	260									15.00		4.10
MW2A		4/9/14							260									15.00		3.50
MW2A		5/5/14							280									16.00		3.60
MW2A		6/17/14	-2		-0.025		7.8	~7.8	290									19.00		3.30
MW2A		7/16/14							280									19.00		3.50
MW2A		8/20/14					7.3		230									12.00		2.20
MW2A		9/18/14	-2		-0.025		7.5	~7.5	210									11.00		2.40
MW2A		10/30/14							220									8.70		3.00
MW2A		11/21/14							290									10.00		3.70
MW2A		12/18/14	-2		-0.018	5.9	5.6	5.9^	290	50		46		*0.013*		0.180		11.00		3.20
MW2A		3/24/15	-2		-0.018		4.7	~4.7	270									12.00		3.00
MW2A		6/11/15	-2		-0.018		6.0	~6.0	290									12.00		3.60
MW2A		9/17/15	-2		0.029		5.6	~5.6	280									11.00		3.20
MW2A		12/16/15	2.0		0.024	5.7	5.2	5.7^	300	64		41		0.022		0.190		12.00		3.20
MW2A		3/29/16	-1.8		-0.022		3.4	~3.4	260									10.00		2.80
MW2A		6/21/16	-1.8		-0.022		5.0	~5.0	300									17.00		3.40
MW2A		9/8/16	-1.8		-0.022		4.9	~4.9	270									19.00		3.20
MW2A		12/8/16	-1.8		-0.022	4.4	4.2	4.4^	330	58		54		0.022		0.230		16.00		4.00
MW2A		3/9/17	-1.8		-0.022		3.4	~3.4	260									12.00		2.90
MW2A		6/13/17	-1.8		-0.021		3.3	~3.3	220									11.00		2.90
MW2A		9/13/17	-1.8		-0.021		4.0	~4.0	250									11.00		2.70
MW2A		12/5/17	-1.8		-0.021	3.7	3.5	3.7^	260									11.00		2.90
MW2A		3/9/18	3		-0.021		3.5	~3.5	290									1.3		2.4
MW2A		6/15/18	17	-2	-0.021		3.7	~3.7	300									1.5		3.5
MW2A		9/17/18	4.5		0.051		4.4	~4.4.	320									6.5		4.0
MW2A		12/17/18	22		0.065	3.7	3.8	3.8^	300	59		44		0.0042		0.160		1.5		3.5
MW2A		3/18/19	4.0		0.043		2.9	~2.9	290									4.6		3.6
MW2A		5/13/19	350		-0.042		3.6	3.6^	300									2.1		4.0
MW2A		9/16/19	> 1600		0.070		3.6	3.6^	290									3.8		3.7
MW2A		12/16/19	240		-0.025	3.4	3.4	3.4^	250	54		38		0.0079		0.14		3.5		3.0

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL		*(2nd MCL or Ag-use threshold if shaded)*	*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW2A		3/16/19	540		-0.025		2.6	2.6^	210									1.8		2.2
MW2A		6/16/20	-1.8		-0.024		2.9	2.9^	220									2.8		2.1
MW2A		9/14/20	2.0		-0.024		3.1	3.1^	240									0.5		2.1
MW2A		12/15/20	1.8		0.040		3.3	3.5^	300	66		46		0.0051		0.15		2.8		3.0
MW2A		3/17/21	13		0.054		2.6	2.7^	240									1.2		2.0
MW2A		6/22/21	> 1600		0.033		3.0	3.0^	290									1.3		2.8
MW2A		9/21/21	920		0.150		3.8	4.0^	300									-0.030		3.2
MW3	269.85	7/16/02	30	-2	-0.50	8.8		9.1	330	32	48						-0.100		5.40	
MW3		9/18/02																		
MW3		10/29/02																		
MW3		11/22/02																		
MW3		12/31/02																		
MW3		1/21/03																		
MW3		6/30/03	-2	-2	-0.05	1.1		1.1	302	33	40				0.26		0.460		4.34	
MW3		7/31/03																		
MW3		8/31/03																		
MW3		9/30/03	-2	-2	-0.05	-1.0		0.5	316	34	38				0.24		0.720		4.10	
MW3		10/31/03																		
MW3		11/30/03																		
MW3		12/31/03	-2	-2	-0.05	1.1		1.1	325	33	40				0.26		0.590		4.14	
MW3		1/31/04																		
MW3		2/20/04																		
MW3		3/31/04	-2	-2	-0.05	1.1		1.1	374	33	39				0.30		0.280		4.02	
MW3		5/2/04																		
MW3		6/1/04																		
MW3		6/30/04	-2	-2	-0.05	-1.0		0.5	324	31	40				0.26		0.330		4.00	
MW3		7/31/04																		
MW3		9/4/04																		
MW3		10/1/04	-2	-2	-0.05	-1.0		0.5	280	33	38				0.28		0.100		3.88	
MW3		1/4/05	-2	-2	0.11	-1.0		0.6	331	34	42		-0.002		0.24		0.120		4.41	
MW3		4/1/05	-2	-2	-0.05	1.1		1.1	356	36	40		-0.002		0.25		0.090		4.38	
MW3		6/30/05	-2	-2	-0.05	-1.0		0.5	332	34	36		-0.002		0.22		0.140		4.07	
MW3		10/6/05																		
MW3		10/14/05	-2	-2	0.48	1.0		1.5	312	32	38		-0.002		0.20		0.080		3.80	
MW3		1/17/06																		
MW3		2/13/06		-2	-0.05	-1.0		0.5	326	30	40		0.0008		0.28		0.136		3.87	
MW3		3/10/06																		
MW3		4/29/06																		
MW3		5/23/06	-2	-2	-0.05	1.0		1.0	310	29	36		-0.002		0.21		0.310		4.63	
MW3		6/30/06																		
MW3		7/25/06																		
MW3		8/25/06	-2	-2	-0.05	-1.0		0.5	306	29	36		-0.002		0.20		0.230		3.90	

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL		*(2nd MCL or Ag-use threshold if shaded)*	*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW3	continued	9/29/06																		
MW3	269.85	10/24/06																		
MW3		11/30/06																		
MW3		12/12/06	-2	-2	0.34	1.4		1.7	304	26	37		-0.002		0.21		0.100		3.80	
MW3		12/29/06																		
MW3		1/31/07																		
MW3		2/27/07																		
MW3		3/13/07	-2		-0.05	-1.0		0.5	277	28	34		-0.002		0.20		0.240		3.90	
MW3		3/30/07																		
MW3		4/30/07																		
MW3		5/31/07																		
MW3		6/25/07	-2		-0.05	-1.0		0.5	260	28	34		-0.002		0.19		0.217		3.59	
MW3		7/29/07																		
MW3		8/30/07																		
MW3		9/27/07	-2	-2	-0.05	-1.0		0.5	284	30	37		-0.002		0.18		0.200	0.047	3.30	3.10
MW3		10/31/07																		
MW3		12/31/07	2	-2	0.93	-1.0		1.4	343	29	38		-0.002		0.22		0.061	0.034	3.40	3.50
MW3		2/2/08																		
MW3		3/2/08																		
MW3		7/7/08	-2	-2	0.19	1.5		1.7	361	37	44		0.0029		0.18		4.70	0.058	4.30	5.00
MW3		10/10/08	-2	-2	-0.05	1.1		1.1	314	38	34		-0.002		0.18		0.117	0.039	3.56	3.73
MW3		11/5/08																		
MW3		12/30/08	-2	-2	-0.10	1.0		1.1	330	37	44		0.011		0.23		0.110	0.087	5.30	4.7
MW3		3/12/09	-1.1		1.200	1.1		2.3	340	39	42		0.017		0.23		0.120	0.0076	5.50	4.4
MW3		6/16/09	-2	-2	0.090	1.4		1.5	320	40	42		-0.050		0.21		0.16	0.053	4.50	4.3
MW3		9/22/09	-2	-2	0.047	1.6		1.6	310	41		34				0.190		-0.0093		3.9
MW3		12/15/09	-2	-2	0.073	1.1		1.2	290	39		42				0.210		0.084		4.1
MW3		3/22/10	-2	-2	0.078	1.1		1.2	310	41		44				0.220		0.050		4.0
MW3		6/22/10	-2	-2	0.023	0.96		1.0	330	44		35				0.200		0.072		3.9
MW3		9/22/10	-2	-2	-0.014	1.3		1.3	360	44		38				0.210		0.081		4.2
MW3		12/14/10	-2		1.8	0.85		2.7	310	36		40				0.210		0.092		3.90
MW3		3/29/11	-2		0.15	1.2		1.4	340	37		43				0.230		0.074		4.50
MW3		6/23/11	-2		0.079	0.98		1.1	320	38		41				0.190		0.082		4.40
MW3		9/14/11	-2		-0.021	1.3		1.3	350	41		42				0.200		0.100		4.30
MW3		12/14/11	-2	-2	2.1	1.4		3.5	330	38		41				0.200		0.059		4.00
MW3		3/21/12	-2		0.74	1.3		2.0	310	35		41				0.200		0.055		3.90
MW3		6/26/12	-2	-2	-0.021	1.5		1.5	310	37		41				0.190		0.083		4.00
MW3		9/26/12	-2		-0.021	1.7		1.7	310	39		40				0.180		0.086		4.20

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL		*(2nd MCL or Ag-use threshold if shaded)*	*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW3	Continued	12/18/12	-2		1.6	1.6		3.2	300	38		43				0.190		0.068		4.30
MW3	269.85	3/11/13	-2		0.24	1.5		1.7	320	33		46				0.190		0.061		4.80
MW3		6/26/13	-2		-0.025	1.7		1.7	300	45		43				0.170		0.090		4.70
MW3		9/11/13	-2		-0.025		1.4	1.4	320									0.098		4.80
MW3		12/12/13	-2		-0.025	1.4	1.3	1.4^	330	48		41		-0.0092		0.180		0.096		4.50
MW3		3/4/14	-2		1.1		1.2	~2.3	340									0.030		4.80
MW3		4/9/14							340									0.070		4.40
MW3		5/5/14							340									0.052		4.90
MW3		6/17/14	-2		-0.025		1.7	~1.7	340									0.110		4.70
MW3		7/16/14							290									0.069		4.90
MW3		8/20/14							320									-0.030		4.40
MW3		9/18/14	-2		-0.025		1.2	~1.2	320									0.130		4.50
MW3		10/30/14							320									-0.030		4.60
MW3		11/21/14							350									-0.030		4.60
MW3		12/18/14	-2		-0.018	1.6	1.3	1.3^	350	41		47		-0.0092		0.180		-0.030		4.60
MW3		3/24/15	-2		0.51		0.88	~1.4	380									-0.030		5.30
MW3		6/11/15	-2		0.091		1.2	~1.3	360									-0.030		5.20
MW3		9/17/15	-2		0.030		1.0	~1.0	350									0.043		4.80
MW3		12/16/15	-1.8		0.057	1.3	1.1	1.4^	350	48		40		0.0010		0.160		0.160		4.20
MW3		3/29/16	-1.8		0.66		0.86	~1.5	380									0.041		4.70
MW3		6/20/16	-1.8		0.034	1.4	1.20	1.3^	370									0.057		4.90
MW3		9/8/16	-1.8		-0.022		0.94	~1.0	350									0.075		4.70
MW3		12/8/16	-1.8		-0.022	1.3	1.1	1.3^	350	49		47		0.00057		0.200		0.073		5.10
MW3		3/10/17	-1.8		0.54		0.78	~1.3	390									0.065		5.50
MW3		6/14/17	-1.8		-0.021		1.2	~1.2	370									0.030		5.10
MW3		9/13/17	-1.8		-0.021		1.4	~1.4	320									0.040		4.60
MW3		12/6/17	-1.8		3.4	1.7	1.3	5.1^	360									0.038		4.10
MW3		3/9/18	6.0		3.4		1.3	4.7^	350									-0.030		2.9
MW3		6/15/18	49.0	-1.8	0.1		1.4	1.5^	320									-0.030		4.3
MW3		9/17/18	540		0.045		1.4	1.4^	320									-0.030		3.8
MW3		12/17/18	> 1600		0.026	1.7	1.7	1.8^	320	45		41		0.00084		0.170		0.030		3.7
MW3		3/18/19	920		1.6		1.1	2.7^	350									-0.030		3.4
MW3		5/13/19	23		0.13		1.8	1.9^	350									-0.030		4.7
MW3		9/16/19	1600		-0.042		2.4	2.4^	320									-0.030		4.9
MW3		12/16/19	920		-0.025	1.9	1.9	1.9^	300	47		45		-0.00038		0.18		0.034		4.3
MW3		3/16/19	920		-0.025		2.0	2.00^	330									0.059		4.5
MW3		6/16/20	-1.8		0.14		1.9	2.04^	310									0.043		4.3
MW3		9/14/20	58		0.097		1.9	2.0^	300									-0.030		4.1
MW3		12/15/20	140		0.085		1.7	1.8^	280	43		39		0.00082		0.16		-0.030		3.4
MW3		3/17/21	4.5		0.061		1.8	2.0^	300									-0.030		3.4
MW3		6/22/21	4.5		0.035		1.8	1.8^	300									-0.030		3.5
MW3		9/21/21	2.0		0.15		1.8	2.0^	300									-0.030		3.6

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL		*(2nd MCL or Ag-use threshold if shaded)*	*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW3A	278.27	8/30/07																		
MW3A		9/24/07																		
MW3A		10/31/07																		
MW3A		11/29/07																		
MW3A		12/26/07	-2	-2	0.170	4.8		5.0	318	33	38		0.011		0.20		6.10	4.10	5.60	5.50
MW3A		2/2/08																		
MW3A		3/2/08																		
MW3A		7/7/08	-2	-2	-0.050	4.6		4.6	295	34	38		0.01		0.16		8.30	2.60	5.70	6.10
MW3A		10/10/08	-2	-2	-0.050	6.3		6.3	286	39	37		0.013		0.19		5.96	4.63	5.84	5.95
MW3A		11/5/08																		
MW3A	continued	12/30/08	-2	-2	-0.10	6.4			280	42	44		0.018		0.23		17.0	6.20	8.10	7.20
MW3A	278.27	3/12/09	-1.1		0.41	6.0		6.4	270	43	41		0.016		0.23		5.500	0.14	7.50	6.00
MW3A		6/16/09	-2	-2	-0.10	4.4		4.5	250	40	43		-0.050		0.22		4.8	0.38	5.60	5.00
MW3A		9/22/09	-2	-2	-0.10	6.3		6.4	290	41		37				0.20		-0.05		5.30
MW3A		12/15/09	-2	-2	-0.10	7.0		7.1	280	45		44				0.24		6.80		6.50
MW3A		3/22/10	-2	-2	0.21	2.3		2.5	280	49		44				0.23		5.20		5.70
MW3A		6/22/10	-2	-2	-0.014	5.1		5.1	250	50		38				0.21		4.50		5.30
MW3A		9/22/10	-2	-2	-0.014	13		13.0	330	39		40				0.23		5.50		5.60
MW3A		12/14/10	-2		0.056	6.1		6.2	280	37		43				0.23		5.60		5.90
MW3A		3/29/11	-2		0.46	6.2		6.7	300	41		45				0.22		2.10		3.00
MW3A		6/23/11	-2		-0.014	4.8		4.8	290	40		44				0.20		4.70		5.90
MW3A		9/14/11	-2		-0.021	5.1		5.1	300	37		45				0.22		4.50		5.70
MW3A		12/14/11	-2	-2	-0.021	6.1		6.1	290	34		43				0.20		4.50		5.60
MW3A		3/21/12	-2		0.83	6.3		7.1	270	36		41				0.19		4.20		5.80
MW3A		6/26/12	-2	-2	-0.021	5.9		5.9	300	40		43				0.19		4.70		5.60
MW3A		9/26/12	-2		-0.021	5.2		5.2	270	39		41				0.18		4.40		5.80
MW3A		12/18/12	-2		-0.021	5.7		5.7	300	39		45				0.18		4.90		6.40
MW3A		3/11/13	-2		-0.021	6.1		6.1	300	41		48				0.18		5.00		7.30
MW3A		6/27/13	-2		-0.025	6.4		6.4	320	47		46				0.18		5.70		7.30
MW3A		9/12/13	-2		-0.025		7.5	7.5	320									7.20		7.60
MW3A		12/11/13	-2		-0.025	8.4	8.4	8.4^	330	47		46		**0.011**		0.20		7.60		8.20
MW3A		3/5/14	-2		-0.025		6.7	~6.7	310									5.20		7.30
MW3A		4/9/14							290									5.40		6.80
MW3A		5/5/14							300									4.90		7.00
MW3A		6/17/14	-2		0.025		6.4	~6.4	280									4.80		6.70
MW3A		7/16/14							330									6.20		7.50
MW3A		8/20/14							320									5.30		7.10
MW3A		9/18/14	-2		-0.025		6.4	~6.4	290									4.60		7.20
MW3A		10/30/14							300									6.00		7.80
MW3A		11/21/14							330									5.70		7.40
MW3A		12/18/14	-2		-0.018	7.9	8.0	7.9^	340	45		45		-0.0092		0.18		6.90		7.60
MW3A		3/24/15	-2		-0.018		6.6	~6.6	320									5.80		7.40
MW3A		6/11/15	-2		-0.018		8.4	~8.4	320									5.40		6.90

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL		*(2nd MCL or Ag-use threshold if shaded)*	*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW3A		9/17/15	-2		-0.018		7.2	~7.2	310									4.10		6.60
MW3A		12/16/15	-1.8		0.039	7.7	7.0	7.7^	310	48		39		0.012		0.17		4.50		5.90
MW3A		3/29/16	-1.8		-0.022		6.6	~6.6	310									4.50		6.10
MW3A		6/21/16	-1.8		-0.022		5.9	~5.9	280									4.10		5.50
MW3A		9/8/16	-1.8		0.22		6.4	~6.6	290									4.30		6.10
MW3A		12/8/16	-1.8		-0.022	6.8	6.8	6.8^	340	53		50		0.012		0.20		5.50		7.40
MW3A		3/10/17	-1.8		0.24		0.34	~0.6	310									5.30		7.50
MW3A		6/14/17	-1.8		-0.021		6.7	~6.7	270									4.20		6.20
MW3A		9/13/17	-1.8		0.16		6.1	~6.3	260									3.30		5.20
MW3A		12/5/17	-1.8		-0.021	6.5	5.6	6.5^	270									3.40		5.20
MW3A		3/9/18	-1.8		-0.021		5.6	5.6^	270									0.36		3.8
MW3A		6/15/18	2	-1.8	-0.021		5.5	5.5^	280									0.17		6.4
MW3A		9/17/18	4.5		0.039		6.5	6.5^	300									0.44		6.2
MW3A		12/17/18	79		0.053	6.8	6.9	6.9^	300	46		46		0.0034		0.15		0.031		5.7
MW3A		3/18/19	-1.8		0.17		6.5	6.7^	320									0.82		5.7
MW3A		5/13/19	79		-0.042		6.1	6.1^	310									0.37		6.5
MW3A		9/16/19	920		-0.042		6.3	6.3^	310									0.35		6.6
MW3A		12/16/19	> 1600		-0.025	5.9	5.7	5.9^	290	44		45		0.0060		0.18		0.99		6.0
MW3A		3/16/19	40		-0.025		6.1	6.1^	320									1.5		6.6
MW3A		6/16/20	-1.9		-0.024		5.1	5.1^	290									1.1		5.4
MW3A		9/14/20	6.8		-0.024		4.6	4.6^	290									-0.030		5.2
MW3A		12/15/20	2.0		0.065		4.6	5.3^	310	42		37		0.0034		0.16		0.14		4.7
MW3A		3/17/21	<1.8		0.041		4.5	4.6^	280									0.23		5.1
MW3A		6/22/21	240		0.056		4.7	4.8^	290									0.053		5.2
MW3A		9/21/21	2.0		0.087		4.7	4.8^	290									-0.030		5.3
MW4	268.77	7/16/02	50	-2	-0.50	5.4		5.7	250	27	21						0.130		0.110	
MW4		9/18/02																		
MW4		10/29/02																		
MW4		11/22/02																		
MW4		12/31/02																		
MW4		1/21/03																		
MW4		6/30/03	-2	-2	-0.05	-1.0		0.5	268	35	29				0.21		1.28		0.110	
MW4		7/31/03																		
MW4		8/31/03																		
MW4		9/30/03	-2	-2	-0.05	-1.0		0.5	247	35	31				0.17		0.100		0.040	
MW4		10/31/03																		
MW4		11/30/03																		
MW4		12/31/03	-2	-2	-0.05	-1.0		0.5	277	43	31				0.15		-0.050		0.030	
MW4		1/31/04																		
MW4		2/20/04																		
MW4		3/31/04	-2	-2	0.20	-1.0		0.7	278	42	31				0.15		-0.050		0.040	
MW4		5/2/04																		
MW4		6/1/04																		
MW4		6/30/04	-2	-2	-0.05	-1.0		0.5	275	34	31				0.18		-0.050		0.050	
MW4		7/31/04																		
MW4		9/4/04																		

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL		*(2nd MCL or Ag-use threshold if shaded)*	*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW4	continued	10/1/04	110	17	-0.05	-1.0		0.5	296	37	33				0.21		-0.050		0.050	
MW4	268.77	1/4/05	2	-2	-0.05	-1.0		0.5	219	32	32		-0.002		0.17		-0.050		0.040	
MW4		4/1/05	2	-2	0.06	-1.0		0.6	252	32	31		-0.002		0.16		-0.050		0.060	
MW4		6/30/05	1600	13	-0.05	-1.0		0.5	254	33	31		-0.002		0.18		2.24		0.090	
MW4		10/7/05	2	-2	-0.05	-1.0		0.5	238	36	37		-0.002		0.18		0.78		0.090	
MW4		1/17/06																		
MW4		2/13/06	2	-2	-0.05	-1.0		0.5	199	31	31		-0.0005		0.17		-0.050		0.085	
MW4		3/10/06																		
MW4		4/29/06																		
MW4		5/23/06	30	-2	-0.05	-1.0		0.5	218	22	28		-0.002		0.11		0.270		0.094	
MW4		6/30/06																		
MW4		7/25/06																		
MW4		8/24/06	-2	-2	-0.05	-1.0		0.5	237	25	31		-0.002		0.15		0.170		0.110	
MW4		9/29/06																		
MW4		10/24/06																		
MW4		11/30/06																		
MW4		12/12/06	2	-2	-0.05	-1.0		0.5	232	36	31		-0.002		0.16		0.190		0.110	
MW4		12/29/06																		
MW4		1/31/07																		
MW4		2/27/07																		
MW4		3/13/07	-2		-0.05	-1.0		0.5	180	35	26		-0.002		0.10		0.084		0.120	
MW4		3/30/07																		
MW4		4/30/07																		
MW4		5/31/07																		
MW4		6/25/07	-2		-0.05	-1.0		0.5	216	30	27		-0.002		0.10		0.056		0.120	
MW4		7/29/07																		
MW4		8/30/07																		
MW4		9/27/07	4	4	-0.05	-1.0		0.5	259	36	34		-0.002		0.11		0.029	-0.020	0.150	0.15
MW4		10/31/07																		

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL (2nd MCL or Ag-use threshold if shaded)			*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW4	continued	11/29/07																		
MW4	268.77	12/27/07	-2	-2	-0.05	-1.0		0.5	239	53	39		-0.002		0.17		0.022	-0.020	0.180	0.18
MW4		2/2/08																		
MW4		3/2/08																		
MW4		7/7/08	17	-2	-0.05	-1.0		0.5	232	50	34		-0.002		0.13		0.021	-0.020	0.20	0.20
MW4		10/10/08	-2	-2	-0.05	-1.0		0.5	251	49	33		-0.002		0.15		-0.002	-0.002	0.203	0.216
MW4		11/5/08																		
MW4		12/30/08	-2	-2	-0.10	1.3		1.4	250	46	37		0.010		0.12		1.20	0.010	0.66	0.29
MW4		3/12/09			-0.10	0.14		0.2	270	44	43		-0.050		0.18		2.70	0.016	0.390	0.30
MW4		6/16/09	-2	-2	-0.10	0.17		0.2	250	37	43		-0.050		0.17		0.50	0.024	0.30	0.31
MW4		9/22/09	-2	-2	-0.1	0.18		0.2	280	47		38				0.18		-0.0093		0.31
MW4		12/15/09	-2	-2	-0.1	0.14		0.2	310	57		46				0.21		0.120		0.37
MW4		3/22/10	-2	-2	0.14	-0.20		0.2	280	46		49				0.18		0.140		0.32
MW4		6/22/10	-2	-2	-0.014	-0.056		0.04	250	35		33				0.15		0.036		0.26
MW4		9/22/10	-2	-2	-0.014	-0.056		0.04	310	55		42				0.20		0.029		0.36
MW4		12/14/10	-2		-0.014	0.089		0.1	270	54		46				0.22		0.019		0.42
MW4		3/29/11	-2		0.42	-0.056		0.4	250	40		43				0.18		-0.005		0.37
MW4		6/23/11	-2		0.098	-0.056		0.1	220	28		37				0.13		-0.005		0.34
MW4		9/14/11	-2		-0.021	0.061		0.1	220	34		41				0.16		0.021		0.38
MW4		12/14/11	-2	-2	-0.021	0.11		0.1	250	40		44				0.19		0.0070		0.44
MW4		3/21/12	-2		-0.021	0.13		0.1	250	40		44				0.16		0.0089		0.47
MW4		6/26/12	-2	-2	-0.021	0.10		0.1	230	36		40				0.14		0.019		0.43
MW4		9/26/12	-2		0.12	0.11		0.2	250	24		42				0.14		0.011		0.51
MW4		12/18/12	2.0		-0.021	-0.083		0.1	250	46		46				0.16		0.022		0.57
MW4		3/11/13	-2		-0.021	0.16		0.2	260	44		45				0.16		-0.030		0.56
MW4		6/27/13	-2		-0.025	0.17		0.2	230	41		41				0.13		-0.030		0.55
MW4		9/11/13	-2		-0.025		0.037	0.05	250									-0.030		0.60
MW4		12/11/13	-2		-0.025	0.16	0.024	0.2^	270	46		43		-0.0092		0.15		-0.030		0.59
MW4		3/5/14	80		-0.025		0.059	~0.1	230									-0.030		0.64
MW4		6/17/14	-2		-0.025		-0.033	~0.03	250									0.032		0.63
MW4		9/18/14	-2		-0.025		-0.033	~0.03	250									-0.030		0.69
MW4		12/18/14	8.0		-0.018	0.82	0.036	0.82^	270	36		44		-0.0092		0.14		-0.030		0.67
MW4		3/24/15	-2		-0.018		-0.033	~0.03	280									-0.030		0.77
MW4		6/11/15	-2		-0.018		-0.025	~0.02	300									-0.030		0.81
MW4		9/17/15	-2		0.18		-0.025	~0.19	290									-0.030		0.80
MW4		12/16/15	-1.8		0.21	0.21	0.027	0.42^	310	42		40		0.00045		0.12		0.077		0.69
MW4		3/29/16	-1.8		8.2		-0.025	~8.21	330									-0.030		0.89

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL		*(2nd MCL or Ag-use threshold if shaded)*	*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW4	continued	6/21/16	-1.8		3.5		-0.025	~3.51	340									-0.030		0.92
MW4	268.77	9/8/16	-1.8		1.2		-0.025	~1.21	340									-0.030		0.92
MW4		12/9/16	-1.8		2.6	0.17	0.020	2.8^	350	47		53		-0.00038		0.16		0.038		1.00
MW4		3/9/17	2.0		20		-0.020	~20.01	500									-0.030		1.70
MW4		6/14/17	-1.8		1.2		-0.020	~1.21	330									-0.030		0.98
MW4		9/13/17	-1.8		0.54		-0.020	~0.55	310									-0.030		0.95
MW4		12/5/17	-1.8		0.36	0.15	0.028	0.51^	290									-0.030		0.91
MW4		3/9/18	-1.8		1.1		0.17	1.27^	300									-0.030		0.65
MW4		6/15/18	8.1	-1.8	1.7		0.08	1.80^	290									0.041		0.89
MW4		9/17/18	33		0.45		0.13	0.6^	300									-0.030		1.1
MW4		12/17/18	>1,600		0.26	0.47	0.13	0.73^	280	38		41		-0.00038		0.13		-0.030		0.94
MW4		3/18/19	46		2.7		0.14	0.6^	270									-0.030		0.81
MW4		5/13/19	46		0.44		<0.067	0.4^	240									-0.030		0.81
MW4		9/16/19	220		-0.042		<0.067	0.1^	280									-0.030		0.97
MW4		12/16/19	920		0.053	0.21	<0.067	0.3^	270	38		44		-0.00038		0.18		-0.030		0.99
MW4		3/16/19	540		0.21		<0.067	0.2^	280									0.034		0.93
MW4		6/16/20	27		1.9		0.097	2.0^	340									-0.030		1.1
MW4		9/14/20	20		0.11		<0.067	0.1^	300									-0.030		1.1
MW4		12/15/20	2.0		0.12		0.11	0.38^	260	31		40		-0.00038		0.15		-0.030		0.87
MW4		3/17/21	<1.8		0.52		<0.067	0.38^	290									-0.030		1.0
MW4		6/22/21	350		1.5		0.11	1.60^	300									-0.030		0.87
MW4		9/21/21	79		1.7		0.17	1.90^	290									-0.030		0.87
MW4A	265.72	8/30/07																		
MW4A		9/24/07																		
MW4A		10/31/07																		
MW4A		11/29/07																		
MW4A		12/27/07	50	-2	0.12	-1.0		0.62	313	24	23		-0.002		0.09		3.60	-0.020	0.450	0.045
MW4A		2/2/08																		
MW4A		3/2/08																		
MW4A		7/7/08	2	-2	0.20	-1.0		0.70	265	34	24		-0.002		0.083		0.280	0.052	0.096	0.088
MW4A		10/10/08	-2	-2	0.37	-1.0		0.87	238	24	21		-0.002		0.089		1.64	0.096	0.168	0.118
MW4A		11/5/08																		
MW4A		12/30/08	8	-2	0.48	0.050		0.53	230	13	22		-0.05		0.093		0.250	0.120	0.190	0.170
MW4A		3/12/09	> 1.1			0.18		0.18	240	25	24		0.019		0.090		-0.050	-0.050	0.120	0.088
MW4A		6/16/09	240	2.0	0.15	0.10		0.25	280	29	25		-0.05		0.088		0.100	0.042	0.180	0.180
MW4A		9/22/09	-2	-2	-0.10	-0.20		0.15	240	25		20				0.092		-0.0093		0.096
MW4A		12/15/09	-2	-2	0.30	-0.20		0.40	230	21		20				0.091		0.077		0.083
MW4A		3/22/10	17	-2	0.49	0.10		0.59	280	40		25				0.084		-0.0093		0.086
MW4A		6/22/10	4	-2	0.40	-0.056		0.43	290	37		20				0.086		-0.005		0.096
MW4A		09/22/10	50	-2	0.036	-0.056		0.06	330	37		24				0.110		0.058		0.079
MW4A		12/14/10	170		0.088	0.23		0.32	270	36		24				0.098		0.20		0.11
MW4A		03/30/11	900	900	1.1	0.86		1.96	290	46		30				0.100		0.023		0.11
MW4A		06/23/11	-2		0.20	0.26		0.46	280	35		27				0.090		0.023		0.12
MW4A		09/14/11	-2		0.046	-0.056		0.07	280	31		26				0.099		-0.005		0.052
MW4A		12/14/11	2.0	-2	0.36	-0.056		0.39	250	23		24				0.092		-0.005		0.056
MW4A		03/21/12	140		0.46	-0.056		0.49	240	20		24				0.082		0.300		0.060
MW4A		06/26/12	-2	-2	0.15	-0.056		0.18	290	24		25				0.094		0.0062		0.062

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL		*(2nd MCL or Ag-use threshold if shaded)*	*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW4A		09/26/12	4		-0.021	0.057		0.07	240	40		25				0.092		0.0054		0.062
MW4A		12/19/12	17		0.10	-0.083		0.14	250	25		23				0.085		0.029		0.061
MW4A		03/11/13	-2		0.22	-0.083		0.26	270	35		23				0.079		-0.030		0.063
MW4A		06/27/13	-2		0.41	0.17		0.58	230	24		22				0.082		0.047		0.073
MW4A		09/12/13	-2		0.46		0.018	0.48	170									-0.030		0.061
MW4A	continued	12/11/13	8.0		0.46	-0.053	-0.017	0.48^	220	17		21		-0.0092		0.083		0.060		0.074
MW4A	265.72	03/05/14	≥ 1600		0.33		0.045	~0.4	210									-0.030		0.055
MW4A		06/17/14	2		0.21		-0.033	~0.2	230									0.033		0.065
MW4A		09/18/14	2.0		0.25		-0.033	~0.3	220									-0.030		0.063
MW4A		12/18/14	≥ 1600		0.31	-0.053	-0.033	0.36^	230	16		21		-0.0092		0.083		-0.030		0.042
MW4A		03/24/15	-2		1.1		-0.033	~1.1	240									-0.030		0.037
MW4A		06/11/15	-2		0.97		-0.025	~1.0	270									-0.030		0.039
MW4A		09/17/15	2.0		0.68		-0.025	~0.7	260									-0.030		0.055
MW4A		12/16/15	4.5		0.86	0.26	-0.025	1.1^	250	19		19		0.00040		0.073		0.064		0.028
MW4A		03/29/16	94		2.8		-0.025	~2.8	280									-0.030		0.023
MW4A		06/21/16	-1.8		3.6		0.025	~3.6	310									0.048		0.110
MW4A		09/08/16	-1.8		2.7		-0.025	~2.7	310									-0.030		0.052
MW4A		12/09/16	-1.8		1.8	0.093	-0.020	1.9^	290	32		26		-0.00038		0.091		-0.030		0.028
MW4A		03/09/17	110		2.0		-0.020	~2.0	310									-0.030		0.012
MW4A		06/14/17	-1.8		0.44		-0.020	~0.5	330									-0.030		0.110
MW4A		09/13/17	-1.8		0.68		0.051	~0.7	310									-0.030		0.057
MW4A		12/05/17	140		2.4	0.17	0.055	2.6^	300									-0.030		0.043
MW4A		3/9/18	4		1.4		0.043	1.4^	310									-0.030		0.019
MW4A		6/15/18	14	2	1.6		0.077	1.7^	290									-0.030		0.036
MW4A		9/17/18	-1.8		0.86		0.082	0.9^	290									-0.030		0.050
MW4A		12/17/18	49		0.62	0.13	0.086	0.75^	260	18		27		-0.00038		0.075		-0.030		-0.033
MW4A		3/18/19	220		1.5		0.056	1.6^	280									-0.030		0.023
MW4A		5/13/19	23		0.76		<0.067	0.8^	310									-0.030		0.082
MW4A		9/16/19	920		0.20		<0.067	0.2^	260									-0.030		0.067
MW4A		12/16/19	280		0.57	0.15	<0.067	0.72^	250	25		29		-0.00038		0.090		-0.030		0.024
MW4A		3/16/19	170		0.42		<0.067	0.42^	270									-0.030		0.018
MW4A		6/16/20	21		0.71		0.097	0.80^	320									-0.030		0.067
MW4A		9/14/20	11		0.32		<0.067	0.32^	280									-0.030		0.098
MW4A		12/15/20	14		0.24		0.11	0.69^	220	25		26		-0.00038		0.086		-0.030		0.017
MW4A		3/17/21	13		0.45		<0.067	0.45^	250									-0.030		0.015
MW4A		6/22/21	4.0		0.56		0.093	0.56^	250									-0.030		0.044
MW4A		9/21/21	2.0		0.36		0.15	0.51^	250									-0.030		0.014
MW5A	266.13	8/30/07																		
MW5A		9/24/07																		
MW5A		10/31/07																		
MW5A		11/29/07																		
MW5A		12/31/07	-2	-2	-0.05	-1.0		0.53	304	26	24		-0.002		0.095		0.32	-0.020	0.280	0.230
MW5A		2/2/08																		
MW5A		3/2/08																		
MW5A		7/2/08	-2	-2	0.6	-1.0		1.10	227	18	17		-0.002		0.071		0.650	-0.020	0.270	0.250
MW5A		10/10/08	-2	-2	0.85	-1.0		1.35	199	11	15		-0.002		0.076		0.099	-0.002	0.132	0.131

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
Analysis Method:			*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
Practical Quantitation Limit					*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
Minimum Detection Limit					*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
Units:			*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL (2nd MCL or Ag-use threshold if shaded)			*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW5A		11/5/08																		
MW5A		12/30/08	-2	-2	0.7	0.049		0.75	200	8.3	16		-0.050		0.084		0.017	0.014	0.088	0.100
MW5A		3/12/09	> 1.1		0.44	0.092		0.53	260	23.0	21		0.011		0.091		0.026	-0.050	0.210	0.160
MW5A		6/16/09	-2	-2	0.15	0.075		0.23	250	26	23		-0.050		0.086		-0.030	-0.050	0.170	0.150
MW5A		9/22/09	-2	-2	0.72	-0.2		0.82	190	11		15				0.080		0.034		0.056
MW5A	continued	12/15/09	-2	-2	0.6	-0.2		0.70	230	19		15				0.085		-0.0093		0.079
MW5A	263.13	3/22/10	13	-2	0.39	0.1		0.48	310	39		26				0.100		-0.0093		0.18
MW5A		6/22/10	-2	-2	0.44	-0.056		0.47	240	28		19				0.083		-0.005		0.19
MW5A		9/22/10	-2	-2	0.28	-0.056		0.31	320	31		20				0.098		-0.005		0.26
MW5A		12/14/10	2		0.082	-0.056		0.11	280	35		23				0.100		-0.005		0.16
MW5A		3/29/11	23		0.028	-0.056		0.06	310	41		27				0.110		-0.005		0.32
MW5A		6/23/11	-2		0.12	0.26		0.38	280	34		25				0.087		-0.005		0.28
MW5A		9/14/11	-2		0.44	-0.056		0.47	220	20		22				0.092		0.074		0.36
MW5A		12/14/11	-2	-2	0.83	-0.056		0.86	230	15		20				0.084		-0.005		0.23
MW5A		3/21/12	140		0.32	-0.056		0.35	250	22		20				0.080		-0.005		0.28
MW5A		6/26/12	2.0	-2	0.24	-0.056		0.27	250	18		20				0.085		0.0059		0.31
MW5A		9/26/12	-2		0.30	-0.056		0.33	230	20		19				0.080		0.0130		0.30
MW5A		12/19/12	11		0.37	0.092		0.46	250	36		22				0.085		-0.005		0.36
MW5A		3/11/13	9		0.59	-0.083		0.63	230	26		22				0.083		-0.030		0.28
MW5A		6/27/13	-2		0.70	0.10		0.80	210	13		17				0.078		-0.030		0.097
MW5A		9/12/13	-2		0.66		0.017	0.68	210									-0.030		0.058
MW5A		12/11/13	-2		0.19	0.075	-0.017	0.26^	230	32		19		-0.0092		0.081		0.098		0.12
MW5A		3/5/14	9		0.27		0.046	~0.3	230									-0.030		0.094
MW5A		6/17/14	-2		0.20		-0.033	~0.2	220									-0.030		0.13
MW5A		9/18/14	-2		0.41		-0.033	~0.4	200									-0.030		0.067
MW5A		12/18/14	30		0.50	0.054	-0.033	0.55^	240	22		21		-0.0092		0.083		-0.030		0.042
MW5A		3/24/15	-2		1.20		-0.033	~1.2	270									-0.030		0.11
MW5A		6/11/15	-2		0.84		-0.025	~0.9	280									-0.030		0.12
MW5A		9/17/15	-2		0.87		-0.025	~0.9	250									-0.030		0.038
MW5A		12/16/15	-2		1.50	0.17	-0.025	1.6^	290	33		18		0.00038		0.070		0.059		0.039
MW5A		3/29/16	14		3.0		-0.025	~3.0	310									-0.030		0.10
MW5A		6/21/16	-1.8		3.6		-0.025	~3.6	300									-0.030		0.14
MW5A		9/8/16	-1.8		2.5		-0.025	~2.5	280									-0.030		0.12
MW5A		12/9/16	14		1.8	-0.088	-0.020	1.9^	280	35		25		-0.00038		0.091		-0.030		0.086
MW5A		3/9/17	7.8		1.9		0.034	~1.9	320									-0.030		0.100
MW5A		6/14/17	-1.8		-0.021		0.025	~0.0	290									-0.030		0.330
MW5A		9/13/17	-1.8		3.4		-0.020	~3.4	340									-0.030		0.310
MW5A		12/5/17	-1.8		3.2	0.11	0.038	3.4^	270									-0.030		0.240
MW5A		3/9/18	-1.8		1.8		0.077	1.8^	270									-0.030		0.190
MW5A		6/15/18	6.8	-2	1.1		-0.018	1.1^	270									-0.030		0.180
MW5A		9/17/18	-1.8		1.7		0.066	1.8^	250									0.050		0.17
MW5A		12/17/18	33		0.99		0.070	1.1^	250	15		19		-0.00038		0.070		-0.030		0.059

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL (2nd MCL or Ag-use threshold if shaded)			*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
MW5A		3/18/19	49		1.7		-0.050	1.7^	290									-0.030		0.13
MW5A	continued	5/13/19	49		0.049		0.067	0.1^	280									-0.030		0.24
MW5A	263.13	9/16/19	350		1.5		-0.067	1.5^	250									-0.030		0.21
MW5A		12/16/19	110		0.73	0.11	-0.067	0.84^	250	20		24		-0.00038		0.092		-0.030		0.24
MW5A		3/16/20	70		0.73		-0.067	0.73^	230									-0.030		0.22
MW5A		6/16/20	49		0.14		0.12	0.26^	310									-0.030		0.29
MW5A		9/14/20	1600		0.38		-0.067	0.38^	220									-0.030		0.17
MW5A		12/15/20	920		1.1		0.093	1.5^	200	20		19		-0.00038		0.076		-0.030		0.13
MW5A		3/17/21	2.0		1.7		-0.067	1.7^	250									-0.030		0.15
MW5A		6/22/21	49		0.81		0.087	0.9^	240									-0.030		0.11
MW5A		9/21/21	2.0		0.66		0.160	0.8^	210									-0.030		0.07
Piezometers																				
Only depth to water data was ever collected from piezometers																				
P-3		6/22/21	240		0.039		0.630	0.7^	270									1.5		2.5
P-3		9/21/21	2.0		-0.024		0.920	1.0^	300									-0.030		2.9
P-5B		6/22/21	920		0.60		0.110	0.7^	250									-0.030		0.0075
P-5B		9/21/21	1600		0.72		0.095	0.8^	220									-0.030		0.0660
Sutter Creek Sample Points																				
SC2	Five Mile	7/31/03																		
SC2	Bridge	8/31/03																		
SC2	281.11	9/30/03																		
SC2		10/31/03																		
SC2		11/30/03																		
SC2		12/31/03																		
SC2		1/31/04																		
SC2		2/20/04																		
SC2		3/31/04																		
SC2		5/2/04																		
SC2		6/1/04																		
SC2		6/30/04																		
SC2		7/31/04																		
SC2		9/4/04																		
SC2		10/1/04			-0.05	-1.0			341	47	38				0.24		0.110		0.110	

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Laboratory Analyses																	
			Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL	*(2nd MCL or Ag-use threshold if shaded)*		*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
SC2	continued	10/4/05			0.36	-1.0			266	30	29				0.23		0.350		0.380	
SC2	281.11	9/6/06			0.56	1.0			212	13	14		0.0025		0.07		0.150		0.200	
SC2		6/29/07			0.37	-1.0			236	21	22		0.0026		0.09		0.130		0.130	
SC2		8/28/07	900	13	-0.05	-1.0	-0.50		272	32	33		0.0031		0.10		0.420		0.570	
SC2		10/30/08	> 2400	500	0.32	-1.0	-0.50		321	50	35		0.0023		0.18		0.149		0.261	0.212
SC2		12/29/08	> 23	16	0.58	0.17	0.026		160	8.4	11		-0.050		0.040		0.087		0.100	
SC2		3/12/09	> 1.1		0.52	0.15	0.03		160	5.4	8.2		0.0091		0.033		0.370		0.050	
SC2		6/16/09	> 1600	> 1600	0.41	0.22	0.076		220	15.0	20		-0.050		0.091		0.270		0.180	
SC2		9/23/09	900	50	0.064	0.43	-0.05		290	50	45				0.220		0.500		1.200	
SC2		12/16/09	> 1600	130	0.62	0.16	0.025		170	7.7	9.2				0.042		0.087		0.048	
SC2		3/22/10	900	70	0.14	1.10	0.064		160	6.0	11				0.043		2.30		0.200	
SC2		6/22/10	900	240	0.16	0.32	0.032		170	7.0	9.2				0.047		5.50		1.200	
SC2		9/22/10	> 1600	> 1600	1.50	0.24	0.048		250	15	30				0.130		0.40		0.520	
SC2		12/13/10	>≥ 1600	240	0.2	0.16	-0.025		140	5.8	8.7				0.049		3.40		0.86	
SC2		3/28/11	≥ 1600	≥ 1600	0.28	0.23	0.028		100	2.5	4.5				-0.010		0.95		0.041	
SC2		6/22/11	≥ 1600	≥ 1600	0.29	0.094	0.032		160	4.6	7.9				0.035		0.120		0.034	
SC2		9/13/11	≥ 1600	50	1.40	0.340	0.14		250	26	24				0.110		0.150		0.250	
SC2		12/14/11	500	40	0.11	-0.056	-0.025		130	7.1	9.5				0.040		0.063		0.061	
SC2		3/22/12	900	170	0.33	0.180	-0.025		140	4.8	6.4				0.032		0.290		0.028	
SC2		6/25/12	≥ 1600	60	0.33	0.220	0.055		210	8.8	12				0.055		0.110		0.120	
SC2		9/25/12	≥ 1600	30	0.39	0.35	0.15		240	27	26				0.100		0.140		0.120	
SC2		12/18/12	≥ 1600	500	0.47	0.13	-0.025		94	4.0	5.9				0.017		0.380		0.023	
SC2		3/11/13	240	30	0.079	0.13	-0.017		160	6.2	8.4				0.036		0.150		0.017	
SC2		6/27/13	1600	300	0.78	0.17	0.050		200	12	16				0.075		0.140		0.140	
SC3	Adjacent	6/28/03																		
SC3	MW 2	7/31/03																		
SC3		8/31/03																		
SC3		9/30/03																		
SC3		10/31/03																		
SC3		11/30/03																		
SC3		12/31/03																		
SC3		1/31/04																		
SC3		2/20/04																		
SC3		3/31/04																		
SC3		5/2/04																		
SC3		6/1/04																		
SC3		6/30/04																		
SC3		7/31/04																		

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Laboratory Analyses																	
			Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL (2nd MCL or Ag-use threshold if shaded)			*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
SC3	Adjacent	9/4/04																		
SC3	MW2	10/1/04			-0.05	-1.0			277	31	33				0.18		1.34		3.900	
SC3		1/4/05			0.99	-1.0			148	6	6				-0.10		0.540		0.030	
SC3		4/1/05			0.33	-1.0			125	4	5				-0.10		0.510		0.030	
SC3		6/30/05			0.14				165	7	8				-0.05		0.060		0.030	
SC3		10/6/05			0.61	1.0			250	27	29				0.21		0.330		1.200	
SC3		2/10/06			0.39				127	6	7		0.0039				0.291		0.032	
SC3		5/26/06			0.15	-1.0			145	6	6		0.0039		-0.05		0.218		0.035	
SC3		9/6/06			0.56	-1.0			199	12	15		0.0034		0.07		0.610		0.380	
SC3		12/13/06			0.25	-1.0			172	8	8		0.0035		-0.05		0.180		0.045	
SC3		3/14/07			0.18	-1.0			118	6	7		0.0049		-0.05		0.180		0.053	
SC3		6/29/07			0.49	-1.0			224	18	20		0.002		0.08		0.150		0.370	
SC3		8/28/07	500	80	0.12	-1.0	-0.500		251	23	31		0.0029		0.087		0.410		1.20	
SC3		12/31/07			0.17	-1.0	-0.500		202	9	10		0.0043		-0.05		0.110		0.120	
SC3		10/30/08	> 2400	80	0.08	-1.0	-0.500		272	44	34		0.012		0.17		6.15		3.68	1.75
SC4	Utility	6/28/03																		
SC4	Bridge	7/31/03																		
SC4	278.35	8/31/03																		
SC4		9/30/03																		
SC4		10/31/03																		
SC4		11/30/03																		
SC4		12/31/03																		
SC4		1/31/04																		
SC4		2/20/04																		
SC4		3/31/04																		
SC4		5/2/04																		
SC4		6/1/04																		
SC4		6/30/04																		
SC4		7/31/04																		
SC4		9/4/04																		
SC4		10/1/04			1.00	-1.0			285	27	21				0.11		0.420		0.110	
SC4		10/4/05			1.30	-1.0			218	19	23				0.16		0.150		0.080	
SC4		9/6/06			0.71	-1.0			176	10	13		0.0021		0.06		0.300		0.037	
SC4		6/29/07			0.68	-1.0			199	10	12		-0.002		0.062		0.150		0.036	
SC4		12/29/08	> 23	> 23	0.57	0.10	-0.025		160	7.3	9.6		-0.050		0.032		0.018		0.0079	
SC4		3/12/09	> 1.1		0.54	0.17	0.028		150	5.1	7.6		0.013		0.030		0.370		0.0280	
SC4		6/16/09	> 1600	> 1600	0.91	0.34	-0.025		190	9.5	16		-0.050		0.074		0.080		0.029	
SC4		9/23/09	1600	130	0.25	0.44	0.11		270	43	42				0.180		0.620		0.740	

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
			Laboratory Analyses																	
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL		*(2nd MCL or Ag-use threshold if shaded)*	*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
SC4	Utility Bridge 278.35	12/16/09	> 1600	500	0.61	0.17	0.033		180	7.0	8.7				0.037		0.110		0.0099	
SC4		3/22/10	500	30	0.14	0.15	0.037		160	5.4	9.5				0.037		1.400		0.1200	
SC4		6/22/10	> 1600	130	0.15	-0.056	-0.025		170	5.3	7.6				0.041		1.100		0.230	
SC4		9/22/10	> 1600	300	0.49	0.310	0.092		310	30	18				0.072		0.140		0.120	
SC4		12/13/10	≥ 1600	50	0.20	0.160	-0.025		150	5.3	8.7				0.048		0.120		0.015	
SC4		3/28/11	≥ 1600	≥ 1600	0.28	0.120	-0.025		91	2.4	4.4				-0.010		1.70		0.05	
SC4		6/22/11	≥ 1600	500	0.26	0.071	-0.025		150	4.2	7.6				0.031		0.120		0.017	
SC4		9/13/11	900	50	0.023	0.150	0.025		220	12.0	15				0.071		0.058		0.041	
SC4		12/14/11	500	30	0.130	-0.056	-0.025		160	6.5	8.9				0.038		0.094		0.031	
SC4		3/22/12	≥ 1600	170	0.30	0.15	-0.025		130	4.6	6.2				0.031		0.320		0.022	
SC4		6/25/12	≥ 1600	80	0.34	0.19	-0.025		200	6.9	10				0.050		0.079		0.031	
SC4		9/25/12	≥ 1600	130	1.20	0.13	0.032		230	15	17				0.087		0.190		0.230	
SC4		12/18/12	≥ 1600	300	0.47	0.37	0.12		92	3.7	5.6				0.017		0.400		0.017	
SC4		3/11/13	900	30	0.081	0.15	-0.017		160	6.2	8.1				0.033		0.110		0.018	
SC4		6/27/13	≥ 1600	80	0.024	0.29	0.085		250	29	25				0.110		0.41		0.81	
SC4+		8/28/07	500	22	0.18	-1.00	-0.500		209	10	14		-0.002		0.057		0.094		0.190	
SC4+		10/30/08	> 2400	> 2400	0.16	-1.0	-0.500		276	20	23		-0.002		0.16		0.253		0.226	
SC6		10/14/04			1.50	2.2			430	99	72				0.23		0.370		0.050	
SC6		10/4/05			4.20	-1.0			380	40	30				0.15		0.130		0.160	
SC6		6/29/07			1.20	-1.0			180	22	19		-0.002		0.056		0.090		0.014	
SC6		8/28/07	> 2400	170	2.70	1.6	-0.500		397	60	45		0.0024		0.12		0.230		0.028	
SC6		10/30/08	> 2400	240	4.10	-1.0	-0.500		240	26	16		-0.002		0.061		0.294		0.032	0.026

Table 2

Historical Quarterly Groundwater Qualityh Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Laboratory Analyses																	
			Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N)[1]	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
		Analysis Method:	*SM 9221 B*	*SM 9221 E*	*EPA 300.0*	*EPA 351.2*	*EPA 350.1*	*Calc*	*EPA 160.1*	*EPA 300.0*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*
		Practical Quantitation Limit			*0.10*	*0.20*	*0.10*	*0.30*	*10-20*	*0.50*	*0.5*	*0.5*	*0.050*	*0.050*	*0.10*	*0.10*	*0.05*	*0.050*	*0.010*	*0.010*
		Minimum Detection Limit			*0.022*	*0.056*	*0.025*	*0.10*	*10-20*	*0.059*	*0.07*	*0.12*	*0.008*	*0.0092*	*0.012*	*0.0097*	*0.017*	*0.030*	*0.0025*	*0.0040*
		Units:	*MPN/100ml*	*MPN/100ml*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
MCL (2nd MCL or Ag-use threshold if shaded)			*2.2*	*2.2*	*10*		*1.5*		*450*	*106*		*69*	*0.010*	*0.010*		*0.7*	*0.3*	*0.3*	*0.05*	*0.05*
Water Wells																				
Scully Well #1		1/20/06	170	-2	0.1				311	31	39.8		-0.002				0.57		-0.020	
Scully Well #1		6/1/06			0.44				327	32	38.1		-0.002		0.14		0.083		-0.020	
Scully Well #1		9/19/06			0.29				330	31	37		-0.002		0.19		-0.050		-0.020	
Scully Well #1		12/12/06			0.078				293	29	38		-0.002		0.19		3.70		0.072	
Scully Well #1		3/23/07			0.35				320	32	36.2		-0.002		0.18		0.069		-0.020	
Scully Well #1		6/26/07			0.18				315	29	38		-0.002		0.19		0.209		-0.005	
Scully Well #1		9/28/07			-0.05				300	28	36		-0.002		0.17		0.100		-0.005	
Scully Well #1*		3/22/10	Present		0.063	0.22			320	37		41	-0.019			0.190		0.26		0.01
Scully Well #2		1/20/06	-2	-2	0.47				268	24	15.1		-0.002				17		0.027	
Scully Well #2*		3/22/10	Absent		0.15	-0.056			250	34		18	-0.019			0.069		0.2		0.0079
Sparrowk Well		1/20/06	50	-2	2.4				234	11	12.4		-0.002				0.30		-0.020	

Notes:

Negative (-) values indicate less than the detection limit

P-3 TOC elevation is ground surface.

[1] The Nitrate-N tabulation column includes analyses results for Nitrate-N +Nitrite-N.

* March 22, 2010 metals results for dissolved constituents

() MW4A well collar was modified in Summer 2010. Hydrograph indicates collar is less than 0.1 foot lower than originally surveyed.

^ Total Nitrogen starting 4th Quarter 2013 is Laboratory Calculated (annually).

~ Condor's Calculation.

	Green shaded cells indicate questionable or qualified analyses (e.g. exceeded hold time)
	Blue shaded cells indicate estimated value detected above minimum detection level but below practical quantitation limit.
	Yellow shaded cells indicate estimated value detected above 2nd MCLs or Ag-use threshold

Table 3

Historical Annual Standard Minerals Data
City of Ione - Wastewater Treatment Facility

Sample ID	Date	Standard Minerals Analyses – Cations: Total Calcium	Dissolved Calcium	Dissolved Magnesium	Total Sodium	Dissolved Sodium	Total Potassium	Dissolved Potassium	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Total Boron	Dissolved Boron	Total Arsenic	Dissolved Arsenic	Dissolved Aluminum	Cations (Calculated)	Anions: Chloride	Nitrate (as N)	Sulfate	Bicarbonate Alkalinity ($CaCO_3$)	Carbonate Alkalinity ($CaCO_3$)	Hydroxide Alkalinity ($CaCO_3$)	Total Alkalinity ($CaCO_3$)	Anions (Calculated)	Hardness	Percent difference between cations and anions
	Analysis Method:	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 206.3*	*EPA 200.8*	*EPA 200.7*		*EPA 300.0*	*EPA 300.0*	*EPA 300.0*	*EPA 310.1*	*EPA 310.1*	*EPA 310.1*	*EPA 310.1*		*Calc*	
	Practical Quantitation Limit	0.10	*0.10*	*0.05*	*0.5*	*0.5*	*1.0*	*1.0*	*0.05*	*0.05*	*0.01*	*0.01*	*0.1*	*0.10*	*0.050*		*0.05*		*0.5*	*0.1*	*1.0*	*4.1*	*4.1*	*4.1*	*4.1*		*0.5*	
	Minimum Detection Limit	0.036	*0.016*	*0.029*	*0.07*	*0.12*	*0.092*	*0.074*	*0.03*	*0.0093*	*0.0025*	*0.0025*	*0.012*	*0.0097*	*0.0083*		*0.023*		*0.059*	*0.026*	*0.21*	*4.1*	*4.1*	*4.1*	*4.1*		*0.1*	
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*meq*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*meq*	*mg/L*	
	MCL (2nd MCL or Ag-use threshold if shaded)					*69*			*0.3*	*0.3*	*0.05*	*0.05*			*0.010*	*0.010*			*106*	*10*	*250*							
Background Wells																												
MW1	7/16/02	33			10		1.4		0.16		-0.03							2.12	6.3	2.40	23	92	-1.0	-1.0	92	2.67	140	11.3%
MW1	6/30/03	28			8.7		1.17		0.81		0.02		-0.01					1.84	6.6	0.55	24	101	-5.0	-5.0	101	2.74	115	19.8%
MW1	9/30/03	27			8.2		1.24		1.12		0.04		-0.1					1.78	6.7	0.51	22	101	-5.0	-5.0	101	2.70	108	20.6%
MW1	12/31/03	31			8.6		1.22		0.09		-0.02		-0.1					1.96	8.5	0.74	19	108	-5.0	-5.0	108	2.85	122	18.6%
MW1	3/31/04	33			9.2		1.25		-0.05		-0.02		-0.1					2.08	8.4	1.70	30	110	-5.0	-5.0	110	3.18	132	21.0%
MW1	6/30/04	29			8.8		1.19		0.31		-0.02		-0.1					1.87	7.2	1.20	28	101	-5.0	-5.0	101	2.89	116	21.4%
MW1	10/1/04	32			14		1.66		41.5		0.87		0.1					3.77	9.9	0.82	23	110	-5.0	-5.0	110	3.01	132	-11.1%
MW1	10/12/04	32			9.2		1.52		4.72		0.1		-0.1					2.21	8.3	1.20	26	102	-5.0	-5.0	102	2.90	124	13.5%
MW1	1/4/05	33			9.58		1.46		1.01		-0.02		-0.1		-0.002			2.14	9.8	1.50	24	112	-5.0	-5.0	112	3.12	136	18.7%
MW1	4/1/05	34			9.2		1.28		0.24		-0.02		-0.1		-0.002			2.14	8.9	2.70	32	108	-5.0	-5.0	108	3.27	146	20.9%
MW1	6/30/05	32			9		1.27		0.08		-0.02		0.05		-0.002			2.02	8.1	3.00	30	99	-5.0	-5.0	99	3.05	132	20.2%
MW1	10/11/05	33			9.9		1.3		0.13		-0.02		-0.05		-0.002			2.12	7.0	1.30	30	105	-5.0	-5.0	105	3.01	133	17.5%
MW1	2/9/06	32			10.7		1.4		0.055		-0.02		0.09		-0.001			2.10	9.0	2.00	25	110	-5.0	-5.0	110	3.12	134	19.5%
MW1	5/23/06	37			9.48		1.26		0.32		-0.02		-0.05		-0.002			2.30	7.2	3.80	25	106	-5.0	-5.0	106	3.11	143	15.0%
MW1	8/24/06	37			11		1.6		0.83		0.036		0.05		-0.002			2.40	8.0	2.20	29	110	-5.0	-5.0	110	3.18	145	14.1%
MW1	12/12/06	32			9.5		1.4		0.31		0.02		0.06		-0.002			2.06	6.8	0.99	21	100	-5.0	-5.0	100	2.70	124	13.5%
MW1	3/13/07	28			8.4		1.22		0.13		-0.02		0.06		-0.002			1.80	7.5	0.81	23	93	-5.0	-5.0	93	2.61	124	18.3%
MW1	6/25/07	29			8.9		1.2		0.036		-0.005		0.064		-0.002			1.87	6.3	0.84	25	82	-5.0	-5.0	82	2.40	113	12.4%
MW1	9/27/07	28			9.8		1.4		0.17		0.007		-0.05		-0.002			1.87	6.7	0.99	22	84	-5.0	-5.0	84	2.40	113	12.5%
MW1	12/27/07	30			9.8		1.5		1.9		0.077		0.054		-0.002			2.03	10	0.84	23	92	-5.0	-5.0	92	2.66	122	13.4%
MW1	7/7/08	28			8.9		1.4		0.62		0.017		0.068		-0.002			1.84	8.8	0.66	28	90	-5.0	-5.0	90	2.68	110	18.4%
MW1	10/10/08	29			8.5		1.3		0.325		0.0097		0.061		-0.002			1.86	9.3	0.93	23	100	-5.0	-5.0	100	2.81	119	20.2%
MW1	12/29/08	35		14	11		1.5		1.6		0.046		0.059		-0.050			3.47	13	0.93	23	110	-4.1	-4.1	110	3.11	140	-5.5%
MW1	3/11/09	34		14	9.9		1.3		0.42		0.013		0.046		0.008			3.33	9	0.86	25	100	-4.1	-4.1	100	2.83	140	-8.1%
MW1	6/16/09	32		13	10		1.4		0.3		0.0068		0.057		-0.050			3.15	8.2	0.98	30	96	-4.1	-4.1	96	2.84	130	-5.1%
MW1	12/15/09		27	11		8.3		1.2		-0.0093		-0.010		0.054				2.64	6.9	1.10	18	93	-4.1	-4.1	93	2.51	110	-2.7%
MW1	12/13/10		27	11		9.3		1.2		-0.005		-0.001		0.060				2.69	6.2	0.61	20	99	-4.1	-4.1	99	2.61	110	-1.4%
MW1	12/14/11		28	11		9.4		1.3		0.012		-0.001		0.056				2.74	6.5	0.54	18	110	-4.1	-4.1	110	2.79	120	0.9%
MW1	12/19/12		26	10		8.3		1.1		0.0050		-0.001		0.049				2.51	5.7	0.58	19	88	-4.1	-4.1	88	2.36	110	-3.1%
MW1	12/12/13		29	11		8.4		1.2		0.340		0.140		0.053		-0.0092	-0.023		7.6	0.79	19	100	-4.1	-4.1	100		120	0.0%
MW1	12/18/14		29	12		9.1		1.3		-0.030		-0.0040		0.048		-0.0092	-0.023		9.5	1.90	16	87	-4.1	-4.1	87		120	0.0%
MW1	12/16/15		37	15		10		1.3		0.140		0.0059		0.047		0.00040	-0.023		30	2.2	30	110	-4.1	-4.1	110		150	0.0%
MW1	12/8/16		35	14		13		1.4		-0.030		0.0064		0.061		-0.00038	-0.023		10	1.2	23	110	-4.1	-4.1	110		150	0.0%
MW1	12/5/17		31	12		10		1.3		-0.030		-0.0040		0.062		-0.00038	-0.023		10	0.64	19	110	-4.1	-4.1	110		130	0.0%
MW1	12/17/18		24	9.5		8.6		1.1		-0.030		0.0028		0.038		-0.00038	0.017		7.4	0.53	17	90	-4.1	-4.1	90		100	-
MW1	12/16/19		28	10		9.3		1.2		-0.030		0.0022		0.049		-0.00038	0.023		6.8	0.30	15	110	-4.1	-4.1	110		110	-
MW1	12/15/20		27	11		9.4		1.3		-0.030		0.0019		0.059		0.00094	0.013		13.0	0.79	14	95	-4.1	-4.1	95		110	-
MW1A	12/27/07	40			25		1.1		1.1		0.07		0.1		-0.002			3.15	29	1.4	19	122	-5.0	-5.0	122	3.75	162	8.7%
MW1A	7/7/08	47			19		0.86		0.38		0.015		0.082		-0.002			3.21	16	7.7	24	145	-5.0	-5.0	145	4.40	179	15.6%
MW1A	10/10/08	44			26		1.3		6.31		0.31		0.11		0.002			3.60	44	1.6	17	138	-4.1	-4.1	138	4.47	170	10.8%
MW1A	12/29/08	48		17	27		1.5		0.63		0.033		0.11		-0.050			5.03	28	3.2	20	160	-4.1	-4.1	160	4.63	190	-4.1%
MW1A	3/11/09	51		17	19		1.0		0.13		0.015		0.082		0.009			4.80	14	3.9	23	150	-4.1	-4.1	150	4.15	200	-7.3%
MW1A	6/16/09	40		15	15		0.97		0.049		0.0038		0.078		-0.050			3.91	9.4	3.0	24	120	-4.1	-4.1	120	3.38	160	-7.3%
MW1A	12/15/09		45	17		26		0.91		-0.0093		-0.010		0.11				4.80	36	3.1	15	150	-4.1	-4.1	150	4.55	180	-2.7%
MW1A	12/13/10		39	14		16		0.86		-0.005		0.016		0.086				3.82	22	2.3	18	130	-4.1	-4.1	130	3.76	160	-0.78%
MW1A	12/14/11		34	13		12		0.84		0.015		0.014		0.067				3.31	8.8	2.5	24	110	-4.1	-4.1	110	3.12	140	-2.89%
MW1A	12/19/12		39	14		20		0.84		0.0062		0.0079		0.080				3.99	35	0.45	17	120	-4.1	-4.1	120	3.77	160	-2.81%
MW1A	12/12/13		34	12		12		0.79		-0.030		0.0061		0.066		-0.0092	-0.023		12	1.4	22	110	-4.1	-4.1	110		130	0.00%
MW1A	12/18/14		50	19		25		0.86		-0.030		-0.0040		0.11		-0.0092	-0.023		40	3.7	48	110	-4.1	-4.1	110		200	0.00%
MW1A	12/16/15		42	15		24		0.66		0.042		-0.0040		0.11		0.00044	-0.023		60	2.0	33	110	-4.1	-4.1	110		170	0.00%

Table 3

Historical Annual Standard Minerals Data
City of Ione - Wastewater Treatment Facility

Sample ID	Date	Standard Minerals Analyses																										
		Cations																	Anions									
		Total Calcium	Dissolved Calcium	Dissolved Magnesium	Total Sodium	Dissolved Sodium	Total Potassium	Dissolved Potassium	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Total Boron	Dissolved Boron	Total Arsenic	Dissolved Arsenic	Dissolved Aluminum	Cations (Calculated)	Chloride	Nitrate (as N)	Sulfate	Bicarbonate Alkalinity ($CaCO_3$)	Carbonate Alkalinity ($CaCO_3$)	Hydroxide Alkalinity ($CaCO_3$)	Total Alkalinity ($CaCO_3$)	Anions (Calculated)	Hardness	Percent difference between cations and anions
	Analysis Method:	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.8*	*EPA 200.7*		*EPA 300.0*	*EPA 300.0*	*EPA 300.0*	*EPA 310.1*	*EPA 310.1*	*EPA 310.1*	*EPA 310.1*		*Calc*	
	Practical Quantitation Limit	0.10	*0.10*	*0.05*	*0.5*	*0.5*	*1.0*	*1.0*	*0.05*	*0.05*	*0.01*	*0.01*	*0.1*	*0.10*	*0.050*		*0.05*		*0.5*	*0.1*	*1.0*	*4.1*	*4.1*	*4.1*	*4.1*		*0.5*	
	Minimum Detection Limit	0.036	*0.016*	*0.029*	*0.07*	*0.12*	*0.092*	*0.074*	*0.03*	*0.0093*	*0.0025*	*0.0025*	*0.012*	*0.0097*	*0.0083*		*0.023*		*0.059*	*0.026*	*0.21*	*4.1*	*4.1*	*4.1*	*4.1*		*0.1*	
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*meq*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*meq*	*mg/L*	
	MCL (2nd MCL, or Ag-use threshold if shaded)					*69*			*0.3*	*0.3*	*0.05*	*0.05*			*0.010*	*0.010*			*106*	*10*	*250*							
MW1A	12/8/16		51	18		33		0.83		-0.030		-0.0040		0.13		-0.00038	-0.023		56	0.33	26	140	-4.1	-4.1	140		200	0.00%
MW1A	12/5/17		50	18		25		0.71		-0.030		-0.0040		0.10		-0.00038	-0.023		30	15	28	130	-4.1	-4.1	130		200	0.00%
MW1A	12/17/18		39	14		32		0.90		-0.030		0.0036		0.10		-0.00038	0.029		34	2.4	20	150	-4.1	-4.1	150		160	0.00%
MW1A	12/16/19		45	15		30		0.61		-0.030		0.0034		0.10		-0.00038	0.013		39	6.0	22	140	-4.1	-4.1	140		180	0.00%
MW1A	12/15/20		42	16		26		0.56		-0.030		0.0078		0.085		-0.00038	0.022		40	3.5	20	130	-4.1	-4.1	130		170	0.00%
WWTP Wells																												
MW2	7/16/02	42			45		4.5		0.2		4.0							4.32	31	-0.50	21	170	-1.0	-1.0	170	4.73	170	4.5%
MW2	6/30/03	34			36		4.02		4.63		3.66		0.01					3.66	32	-0.05	11	178	-5.0	-5.0	178	4.69	142	12.3%
MW2	9/30/03	34			36		3.96		3.99		3.71		0.26					3.64	32	-0.05	7.7	200	-5.0	-5.0	200	5.06	151	16.3%
MW2	12/31/03	34			36		4.44		3.32		4.22		0.22					3.65	32	-0.05	5.9	198	-5.0	-5.0	198	4.98	155	15.5%
MW2	3/31/04	36			38		4.42		3.06		4.74		0.21					3.84	35	-0.05	4.9	198	-5.0	-5.0	198	5.05	167	13.5%
MW2	6/30/04	37			39		4.34		3.51		4.57		0.25					3.95	34	-0.05	5.9	198	-5.0	-5.0	198	5.04	159	12.2%
MW2	10/1/04	41			40		4.37		3.62		5.2		0.26					4.22	36	-0.05	5.6	214	-5.0	-5.0	214	5.41	167	12.4%
MW2	1/4/05	36			39		4.88		3.27		4.16		0.23		0.0073			3.89	36	-0.05	10	191	-5.0	-5.0	191	5.04	149	12.9%
MW2	4/1/05	32			33		4.04		2.7		3.66		0.2		0.0046			3.37	34	-0.05	16	156	-5.0	-5.0	156	4.41	130	13.4%
MW2	6/30/05	30			31		3.93		2.52		2.9		0.2		0.0051			3.14	30	-0.05	18	137	-5.0	-5.0	137	3.96	124	11.5%
MW2	10/14/05	30			36		4.2		2.37		2.82		0.22		0.0061			3.36	34	-0.05	16	137	-5.0	-5.0	137	4.03	125	9.1%
MW2	2/10/06	25			34.1		3.04		1.91		2.26		0.26		0.005			2.96	34	-0.05	16	114	-5.0	-5.0	114	3.57	103	9.4%
MW2	5/23/06	24			29.1		3.64		2.02		2.53		0.17		0.0055			2.72	27	-0.05	18	103	-5.0	-5.0	103	3.20	95	8.0%
MW2	8/24/06	22			32		3.5		1.9		2.4		0.15		0.0057			2.73	25	-0.05	14	110	-5.0	-5.0	110	3.20	96	7.8%
MW2	12/12/06	24			34		4.4		2.1		2.9		0.22		0.0064			2.97	29	-0.05	9.2	116	-5.0	-5.0	116	3.33	96	5.7%
MW2	3/13/07	22			32.6		3.97		1.8		2.6		0.19		0.0053			2.78	33	-0.05	10	112	-5.0	-5.0	112	3.38	96	9.8%
MW2	6/25/07	22			31		3.6		1.63		2.25		0.17		0.0042			2.68	30	-0.05	14	103	-5.0	-5.0	103	3.20	96	8.8%
MW2	9/27/07	25			36		4.0		1.9		2.7		0.16		0.0064			3.08	30	-0.05	12	111	-5.0	-5.0	111	3.32	101	3.7%
MW2	12/26/07	36			40		4.8		2.5		4.2		0.19		0.0065			3.90	35	-0.05	59	111	-5.0	-5.0	111	4.44	145	6.4%
MW2	7/7/08	33			39		4.3		2.8		3.0		0.15		0.0067			3.66	34	-0.05	56	119	-5.0	-5.0	119	4.50	136	10.3%
MW2	10/10/08	32			36		4.2		2.14		3.93		0.17		0.005			3.49	41	-0.05	35	136	-5.0	-5.0	136	4.60	138	13.8%
MW2	12/30/08	36		12	44		4.9		3.1		4.9		0.21		0.013			5.11	40	0.05	30	140	-4.1	-4.1	140	4.55	140	-5.8%
MW2	3/12/09	32		11	41		4.6		2.6		5		0.21		0.011			4.68	42	-0.10	18	140	-4.1	-4.1	140	4.36	120	-3.5%
MW2	6/16/09	39		21	42		6.6		69		5.1		0.19		0.033			8.33	39	0.06	13	140	-4.1	-4.1	140	4.17	180	-33.2%
MW2	12/15/09		30	10		37		4.8		2.30		3.90		0.22				4.28	43	-0.10	11	130	-4.1	-4.1	130	4.04	120	-2.8%
MW2	12/13/10		30	9.6		43		4.5		2.30		4.10		0.22				4.50	41	-0.014	5.9	160	-4.1	-4.1	160	4.48	110	-0.3%
MW2	12/14/11		31	10		44		4.7		2.30		4.00		0.20				4.63	37	-0.021	7.3	170	-4.1	-4.1	170	4.59	120	-0.4%
MW2	12/19/12		34	11		44		5.0		2.40		5.20		0.18				4.92	42	-0.021	6.6	180	-4.1	-4.1	180	4.92	130	0.0%
MW2	12/11/13		36	12		45		4.6		2.90		4.90		0.17		-0.0092	-0.050		53	-0.025	7.4	190	-4.1	-4.1	190		140	0.0%
MW2	12/18/14		35	13		45		5.0		2.50		4.20		0.16		-0.0092	0.034		47	-0.018	30	140	-4.1	-4.1	140		140	0.0%
MW2	12/15/15		29	10		39		4.1		2.30		2.80		0.16		0.0065	-0.023		45	-0.018	24	130	-4.1	-4.1	130		110	0.0%
MW2	12/8/16		36	13		48		4.9		2.80		3.30		0.20		0.0067	0.030		47	-0.022	21	140	-4.1	-4.1	140		140	0.0%
MW2	12/6/17		27	8.9		38		4.2		1.90		3.10		0.16		0.0058	-0.050		35	-0.021	23	110	-4.1	-4.1	110		100	0.0%
MW2	12/17/18		33	11		42		4.5		-0.030		3.2		0.14		0.0019	0.0062		41	0.030	20	160	-4.1	-4.1	160		130	-
MW2	12/16/19		35	11		45		4.9		0.36		4.7		0.16		0.0046	-0.0030		42	-0.025	15	190	-4.1	-4.1	190		130	-
MW2	12/15/20		29	10		39		4.2		0.11		3.1		0.15		0.0032	-0.0030		45	0.047	29	130	-4.1	-4.1	130		110	-
MW2A	12/11/13		32	9.9		44		5.0		15.00		4.20		0.16		*0.019*	-0.023		40	-0.025	28	160	-4.1	-4.1	160		120	0.0%
MW2A	12/18/14		27	8.7		46		5.5		11.00		3.20		0.18		*0.013*	-0.023		50	-0.018	31	110	-4.1	-4.1	110		100	0.0%
MW2A	12/16/15		28	8.4		41		5.4		12.00		3.20		0.19		0.022	-0.023		64	0.024	27	120	-4.1	-4.1	120		100	0.0%
MW2A	12/8/16		36	11		54		6.9		16.00		4.00		0.23		0.022	0.025		58	-0.022	20	140	-4.1	-4.1	140		140	0.0%
MW2A	12/5/17		28	7.9		43		5.2		11.00		2.90		0.16		0.020	-0.023		43	-0.021	23	140	-4.1	-4.1	140		100	0.0%
MW2A	12/17/18		38	10		44		6.9		1.5		3.5		0.16		0.0042	-0.0030		59	0.065	2.7	170	-4.1	-4.1	170		130	-
MW2A	12/16/19		28	7.1		38		6.4		3.5		3.0		0.14		0.0079	-0.0030		54	-0.025	38	100	-4.1	-4.1	100		98	-
MW2A	12/15/20		27	7.6		46		6.5		2.8		3.0		0.15		0.0051	-0.0030		66	0.040	25	120	-4.1	-4.1	120		99	-

Table 3

Historical Annual Standard Minerals Data
City of Ione - Wastewater Treatment Facility

		Standard Minerals Analyses																										
		Cations																	Anions									
Sample ID	Date	Total Calcium	Dissolved Calcium	Dissolved Magnesium	Total Sodium	Dissolved Sodium	Total Potassium	Dissolved Potassium	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Total Boron	Dissolved Boron	Total Arsenic	Dissolved Arsenic	Dissolved Aluminum	Cations (Calculated)	Chloride	Nitrate (as N)	Sulfate	Bicarbonate Alkalinity ($CaCO_3$)	Carbonate Alkalinity ($CaCO_3$)	Hydroxide Alkalinity ($CaCO_3$)	Total Alkalinity ($CaCO_3$)	Anions (Calculated)	Hardness	Percent difference between cations and anions
Analysis Method:		*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.2*	*EPA 200.8*	*EPA 200.7*		*EPA 300.0*	*EPA 300.0*	*EPA 300.0*	*EPA 310.1*	*EPA 310.1*	*EPA 310.1*	*EPA 310.1*		*Calc*	
Practical Quantitation Limit		0.10	*0.10*	*0.05*	*0.5*	*0.5*	*1.0*	*1.0*	*0.05*	*0.05*	*0.01*	*0.01*	*0.1*	*0.10*	*0.050*		*0.05*		*0.5*	*0.1*	*1.0*	*4.1*	*4.1*	*4.1*	*4.1*		*0.5*	
Minimum Detection Limit		0.036	*0.016*	*0.029*	*0.07*	*0.12*	*0.092*	*0.074*	*0.03*	*0.0093*	*0.0025*	*0.0025*	*0.012*	*0.0097*	*0.0083*		*0.023*		*0.059*	*0.026*	*0.21*	*4.1*	*4.1*	*4.1*	*4.1*		*0.1*	
Units		*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*meq*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*meq*	*mg/L*	
MCL (2nd MCL or Ag-use threshold if shaded)						*69*			*0.3*	*0.3*	*0.05*	*0.05*			*0.010*	*0.010*			*106*	*10*	*250*							
MW3	7/16/02	59			48		3.5		-0.1		5.4							5.32	32	-0.5	20	210	-1.0	-1.0	210	5.53	230	2.0%
MW3	6/30/03	50			40		2.82		0.46		4.34		0.26					4.48	33	-0.05	22	226	-5.0	-5.0	226	5.91	207	13.7%
MW3	9/30/03	47			38		2.6		0.72		4.1		0.24					4.24	34	-0.05	18	230	-5.0	-5.0	230	5.93	201	16.6%
MW3	12/31/03	59			40		2.84		0.59		4.14		0.26					4.93	33	-0.05	12	258	-5.0	-5.0	258	6.34	224	12.5%
MW3	3/31/04	58			39		2.75		0.28		4.02		0.3					4.82	33	-0.05	10	260	-5.0	-5.0	260	6.34	217	13.6%
MW3	6/30/04	51			40		2.63		0.33		4.0		0.26					4.51	31	-0.05	7.9	238	-5.0	-5.0	238	5.80	202	12.5%
MW3	10/1/04	49			38		2.59		0.1		3.88		0.28					4.31	33	-0.05	6.2	218	-5.0	-5.0	218	5.42	191	11.4%
MW3	1/4/05	55			42		3.29		0.12		4.41		0.24		-0.002			4.82	34	0.11	4.3	265	-5.0	-5.0	265	6.35	208	13.7%
MW3	4/1/05	56			40		2.71		0.09		4.38		0.25		-0.002			4.77	36	-0.05	6.1	252	-5.0	-5.0	252	6.18	216	12.9%
MW3	6/30/05	53			36		2.84		0.14		4.07		0.22		-0.002			4.44	34	-0.05	7	232	-5.0	-5.0	232	5.74	208	12.8%
MW3	10/14/05	49			38		2.8		0.08		3.8		0.2		-0.002			4.31	32	0.48	8.1	215	-5.0	-5.0	215	5.40	192	11.2%
MW3	2/13/06	48			40		3.02		0.136		3.87		0.28		0.0008			4.36	30	-0.05	7.7	220	-5.0	-5.0	220	5.40	188	10.7%
MW3	5/23/06	49			35.6		2.85		0.31		4.63		0.21		-0.002			4.25	29	-0.05	6.99	211	-5.0	-5.0	211	5.18	195	9.9%
MW3	8/25/06	45			36		2.6		0.23		3.9		0.2		-0.002			4.03	29	-0.05	8.4	192	-5.0	-5.0	192	4.83	179	9.1%
MW3	12/12/06	48			37		2.8		0.1		3.8		0.21		-0.002			4.22	26	0.34	6.3	197	-5.0	-5.0	197	4.83	185	6.7%
MW3	3/13/07	46			34		2.95		0.24		3.9		0.2		-0.002			4.0	28	-0.05	5.5	190	-5.0	-5.0	190	4.70	182	8.1%
MW3	6/25/07	39			34		2.5		0.217		3.59		0.19		-0.002			3.63	28	-0.05	7.0	160	-5.0	-5.0	160	4.13	145	6.5%
MW3	9/27/07	39			37		2.5		0.20		3.3		0.18		-0.002			3.75	30	-0.05	6.4	159	-5.0	-5.0	159	4.16	153	5.2%
MW3	12/31/07	48			38		2.6		0.061		3.4		0.22		-0.002			4.24	29	0.93	13	176	-5.0	-5.0	176	4.67	186	4.8%
MW3	7/7/08	53			44		3.2		4.70		4.3		0.18		0.0029			4.97	37	0.19	23	205	-5.0	-5.0	205	5.63	199	6.3%
MW3	10/10/08	46			34		2.5		0.117		3.56		0.18		-0.002			3.97	38	-0.05	31	178	-5.0	-5.0	178	5.28	186	14.1%
MW3	12/30/08	55		16	44		3.0		0.11		5.3		0.23		0.011			6.25	37	-0.10	25	200	-4.1	-4.1	200	5.56	200	-5.8%
MW3	3/12/09	54		16	42		2.9		0.12		5.5		0.23		0.017			6.12	39	1.20	20	200	-4.1	-4.1	200	5.60	200	-4.4%
MW3	6/16/09	44		14	42		3.2		0.16		4.5		0.21		-0.05			5.43	40	0.090	15	200	-4.1	-4.1	200	5.44	170	0.2%
MW3	12/15/09		48	14		42		2.6		0.084		4.10		0.21				5.59	39	0.073	8.3	200	-4.1	-4.1	200	5.27	180	-2.9%
MW3	12/14/10		45	13		40		2.7		0.092		3.90		0.21				5.27	36	1.8	4.1	200	-4.1	-4.1	200	5.23	170	-0.4%
MW3	12/14/11		47	14		41		2.9		0.059		4.00		0.20				5.50	38	2.1	4.3	210	-4.1	-4.1	210	5.51	170	0.0%
MW3	12/18/12		46	14		43		2.9		0.068		4.30		0.19				5.55	38	1.6	3.3	220	-4.1	-4.1	220	5.65	170	0.9%
MW3	12/12/13		47	14		41		2.9		0.096		4.50		0.18		-0.0092	-0.023		48	-0.025	3.0	220	-4.1	-4.1	220		180	0.0%
MW3	12/18/14		52	16		47		3.0		-0.030		4.60		0.18		-0.0092	-0.023		41	-0.018	17	210	-4.1	-4.1	210		200	0.0%
MW3	12/16/15		44	13		40		2.8		0.160		4.20		0.16		0.0010	-0.023		48	0.057	26	190	-4.1	-4.1	190		160	0.0%
MW3	12/8/16		58	17		47		3.0		0.073		5.10		0.20		0.00057	-0.023		49	-0.022	16	210	-4.1	-4.1	210		220	0.0%
MW3	12/6/17		45	13		38		2.9		0.038		4.10		0.18		-0.00038	-0.023		42	3.4	15	180	-4.1	-4.1	180		170	0.0%
MW3	12/17/18		47	12		41		3.2		0.030		3.7		0.17		0.00084	0.01		45	0.026	14	190	-4.1	-4.1	190		170	-
MW3	12/16/19		49	13		45		3.5		0.034		4.3		0.18		-0.00038	-0.0030		47	-0.025	13	210	-4.1	-4.1	210		180	-
MW3	12/15/20		36	11		39		3.2		-0.030		3.4		0.16		0.00082	0.012		43	0.085	23	150	-4.1	-4.1	150		130	-
MW3A	12/26/07	35			38		5.4		6.10		5.6		0.20		0.011			3.96	33	0.17	21	152	-5.0	-5.0	152	4.42	141	5.5%
MW3A	7/7/08	33			38		4.8		8.30		5.7		0.16		0.01			3.93	34	-0.05	45	147	-5.0	-5.0	147	4.84	136	10.4%
MW3A	10/10/08	38			37		5.2		5.96		5.84		0.19		0.013			4.06	39	-0.05	19	188	-5.0	-5.0	188	5.25	150	12.8%
MW3A	12/30/08	40		12	44				17.00		8.1		0.23		0.018			5.80	42	-0.1	12	190	-4.1	-4.1	190	5.23		-5.1%
MW3A	3/12/09	37		11	41		5.4		5.50		7.5		0.23		0.016			5.14	43	0.410	11	170	-4.1	-4.1	170	4.87	140	-2.7%
MW3A	6/16/09	35		11	43		5.0		4.80		5.6		0.22		-0.05			5.03	40	-0.1	8.3	160	-4.1	-4.1	160	4.50	130	-5.5%
MW3A	12/15/09		38	11		44		5.3		6.80		6.50		0.24				5.33	45	-0.10	3.1	190	-4.1	-4.1	190	5.13	140	-1.9%
MW3A	12/14/10		35	10		43		4.9		5.60		5.90		0.23				4.98	37	0.056	3.3	190	-4.1	-4.1	190	4.91	130	-0.7%
MW3A	12/14/11		33	9.8		43		5.0		4.50		5.60		0.20				4.82	34	-0.021	3.8	190	-4.1	-4.1	190	4.84	120	0.2%
MW3A	12/18/12		37	11		45		5.1		4.90		6.40		0.18				5.25	39	-0.021	3.5	220	-4.1	-4.1	220	5.57	140	3.0%
MW3A	12/11/13		47	14		46		6.0		7.60		8.20		0.20		*0.011*	-0.023		47	-0.025	2.7	250	-4.1	-4.1	250		170	0.0%
MW3A	12/18/14		43	13		45		6.3		7.60		6.90		0.18		-0.0092	-0.023		45	-0.018	18	200	-4.1	-4.1	200		160	0.0%
MW3A	12/16/15		33	10		39		5.1		4.50		5.90		0.17		0.012	-0.023		48	0.039	21	170	-4.1	-4.1	170		120	0.0%
MW3A	12/8/16		40	13		50		6.4		5.50		7.40		0.20		0.012	0.023		53	-0.022	12	190	-4.1	-4.1	190		150	0.0%

Table 3

Historical Annual Standard Minerals Data
City of Ione - Wastewater Treatment Facility

Sample ID	Date	Standard Minerals Analyses – Cations: Total Calcium	Dissolved Calcium	Dissolved Magnesium	Total Sodium	Dissolved Sodium	Total Potassium	Dissolved Potassium	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Total Boron	Dissolved Boron	Total Arsenic	Dissolved Arsenic	Dissolved Aluminum	Cations (Calculated)	Anions: Chloride	Nitrate (as N)	Sulfate	Bicarbonate Alkalinity ($CaCO_3$)	Carbonate Alkalinity ($CaCO_3$)	Hydroxide Alkalinity ($CaCO_3$)	Total Alkalinity ($CaCO_3$)	Anions (Calculated)	Hardness	Percent difference between cations and anions
	Analysis Method:	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.8*	*EPA 200.7*		*EPA 300.0*	*EPA 300.0*	*EPA 300.0*	*EPA 310.1*	*EPA 310.1*	*EPA 310.1*	*EPA 310.1*		*Calc*	
	Practical Quantitation Limit	0.10	*0.10*	*0.05*	*0.5*	*0.5*	*1.0*	*1.0*	*0.05*	*0.05*	*0.01*	*0.01*	*0.1*	*0.10*	*0.050*		*0.05*		*0.5*	*0.1*	*1.0*	*4.1*	*4.1*	*4.1*	*4.1*		*0.5*	
	Minimum Detection Limit	0.036	*0.016*	*0.029*	*0.07*	*0.12*	*0.092*	*0.074*	*0.03*	*0.0093*	*0.0025*	*0.0025*	*0.012*	*0.0097*	*0.0083*		*0.023*		*0.059*	*0.026*	*0.21*	*4.1*	*4.1*	*4.1*	*4.1*		*0.1*	
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*meq*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*meq*	*mg/L*	
	MCL (2nd MCL or Ag-use threshold if shaded)					*69*			*0.3*	*0.3*	*0.05*	*0.05*			*0.010*	*0.010*			*106*	*10*	*250*							
MW3A	12/5/17		30	8.9		40		5.0		3.40		5.20		0.21		0.011	-0.023		41	-0.021	19	150	-4.1	-4.1	150		110	0.0%
MW3A	12/17/18		37	11		46		5.5		0.031		5.7		0.15		0.0034	0.0031		46	0.053	12	200	-4.1	-4.1	200		140	-
MW3A	12/16/19		36	10		45		5.1		0.99		6.0		0.18		0.0060	0.0030		44	-0.025	12	200	-4.1	-4.1	200		130	-
MW3A	12/15/20		29	8.9		37		4.5		0.14		4.7		0.16		0.0034	-0.0030		42	0.065	27	140	-4.1	-4.1	140		110	-
MW4	7/16/02	46			21		-1.0		0.13		0.11							3.22	27	-0.5	19	120	-1.0	-1.0	120	3.57	180	5.2%
MW4	6/30/03	45			29		0.52		1.28		0.11		0.21					3.57	35	-0.05	21	170	-5.0	-5.0	170	4.82	174	14.9%
MW4	9/30/03	44			31		0.43		0.1		0.04		0.17					3.56	35	-0.05	14	193	-5.0	-5.0	193	5.14	185	18.1%
MW4	12/31/03	46			31		0.48		-0.05		0.03		0.15					3.66	43	-0.05	15	178	-5.0	-5.0	178	5.08	180	16.3%
MW4	3/31/04	41			31		0.43		-0.05		0.04		0.15					3.41	42	0.2	17	164	-5.0	-5.0	164	4.83	159	17.3%
MW4	6/30/04	40			31		0.39		-0.05		0.05		0.18					3.36	34	-0.05	17	166	-5.0	-5.0	166	4.63	159	16.0%
MW4	10/1/04	37			33		0.41		-0.05		0.05		0.21					3.29	37	-0.05	18	158	-5.0	-5.0	158	4.58	154	16.3%
MW4	1/4/05	33			32		0.51		-0.05		0.04		0.17		-0.002			3.05	32	-0.05	16	137	-5.0	-5.0	137	3.98	130	13.1%
MW4	4/1/05	33			31		0.38		-0.05		0.06		0.16		-0.002			3.01	32	0.063	23	134	-5.0	-5.0	134	4.06	134	14.9%
MW4	6/30/05	34			31		0.63		2.24		0.09		0.18		-0.002			3.14	33	-0.05	16	138	-5.0	-5.0	138	4.02	132	12.3%
MW4	10/7/05	38			37		0.55		0.78		0.09		0.18		-0.002			3.55	36	-0.05	25	141	-5.0	-5.0	141	4.36	143	10.2%
MW4	2/13/06	29			30.8		0.44		-0.05		0.085		0.17		-0.001			2.80	31	-0.05	25	106	-5.0	-5.0	106	3.51	112	11.3%
MW4	5/23/06	32			27.6		0.664		0.27		0.094		0.11		-0.002			2.83	22	-0.05	24	111	-5.0	-5.0	111	3.34	119	8.3%
MW4	8/24/06	32			31		0.44		0.17		0.11		0.15		-0.002			2.97	25	-0.05	24	121	-5.0	-5.0	121	3.62	123	10.0%
MW4	12/12/06	27			31		0.42		0.19		0.11		0.16		-0.002			2.72	36	-0.05	15	96	-5.0	-5.0	96	3.25	108	8.9%
MW4	3/13/07	27			26		0.401		0.084		0.12		0.10		-0.002			2.50	35	-0.05	18	82	-5.0	-5.0	82	3.0	106	9.2%
MW4	6/25/07	27			27		0.374		0.056		0.12		0.10		-0.002			2.54	30	-0.05	19	85	-5.0	-5.0	85	2.94	109	7.4%
MW4	9/27/07	32			34		0.39		0.029		0.15		0.11		-0.002			3.09	36	-0.05	27	98	-5.0	-5.0	98	3.54	123	6.7%
MW4	12/27/07	34			39		0.48		0.022		0.18		0.17		-0.002			3.41	53	-0.05	25	108	-5.0	-5.0	108	4.18	137	10.1%
MW4	7/7/08	28			34		0.4		0.021		0.20		0.13		-0.002			2.89	50	-0.05	24	88	-5.0	-5.0	88	3.67	114	11.8%
MW4	10/10/08	32			33		0.44		-0.002		0.203		0.15		-0.002			3.05	49	-0.05	25	108	-5.0	-5.0	108	4.06	126	14.2%
MW4	12/30/08	37		13	37		0.78		1.2		0.66		0.12		0.010			4.61	46	-0.1	24	120	-4.1	-4.1	120	4.20	140	-4.7%
MW4	3/12/09	38		13	43		0.58		2.7		0.39		0.18		-0.050			4.96	44	-0.10	26	130	-4.1	-4.1	130	4.38	150	-6.2%
MW4	6/16/09	35		12	43		0.44		0.5		0.3		0.17		-0.050			4.64	37	-0.100	22	130	-4.1	-4.1	130	4.10	140	-6.2%
MW4	12/15/09		37	13		46		0.54		0.12		0.37		0.21				4.95	57	-0.100	19	130	-4.1	-4.1	130	4.60	140	-3.6%
MW4	12/14/10		32	11		46		0.40		0.019		0.42		0.22				4.53	54	-0.014	13	130	-4.1	-4.1	130	4.39	130	-1.5%
MW4	12/14/11		29	10		44		0.43		0.007		0.44		0.19				4.21	40	-0.021	13	140	-4.1	-4.1	140	4.20	110	-0.2%
MW4	12/18/12		34	11		46		0.42		0.022		0.44		0.16				4.63	46	-0.021	7.2	160	-4.1	-4.1	160	4.65	130	0.2%
MW4	12/11/13		32	11		43		0.38		-0.030		0.59		0.15		-0.0092	-0.023		46	-0.025	8.6	150	-4.1	-4.1	150		130	0.0%
MW4	12/18/14		35	13		44		0.40		-0.030		0.67		0.14		-0.0092	-0.023		36	-0.018	13	150	-4.1	-4.1	150		140	0.0%
MW4	12/16/15		34	12		40		0.26		0.077		0.69		0.12		0.00045	-0.023		42	0.21	28	140	-4.1	-4.1	140		130	0.0%
MW4	12/9/16		47	16		53		0.38		0.038		1.00		0.16		-0.00038	-0.023		47	2.6	40	140	-4.1	-4.1	140		180	0.0%
MW4	12/5/17		36	12		45		0.32		-0.030		0.91		0.20		-0.00038	-0.023		45	0.36	32	150	-4.1	-4.1	150		140	0.0%
MW4	12/17/18		39	13		41		0.58		-0.030		0.94		0.13		-0.00038	-0.003		38	0.26	29	160	-4.1	-4.1	160		150	-
MW4	12/16/19		37	12		44		0.29		-0.030		0.99		0.18		-0.00038	-0.003		38	0.053	24	160	-4.1	-4.1	160		140	-
MW4	12/15/20		34	12		40		0.37		-0.030		0.87		0.15		-0.00038	0.0055		31	0.12	29	140	-4.1	-4.1	140		130	-
MW4A	12/27/07	43			23		0.54		3.6		0.45		0.088		-0.002			3.31	24	0.12	23	127	-5.0	-5.0	127	3.70	162	5.7%
MW4A	7/7/08	43			24		0.3		0.28		0.096		0.083		-0.002			3.21	34	0.2	27	137	-5.0	-5.0	137	4.27	165	14.2%
MW4A	10/10/08	41			21		0.42		1.64		0.168		0.089		-0.002			3.03	24	0.37	28	138	-5.0	-5.0	138	4.04	152	14.3%
MW4A	12/30/08	40		14	22		0.32		0.25		0.19		0.093		-0.050			4.13	13	0.48	25	140	-4.1	-4.1	140	3.72	160	-5.2%
MW4A	3/12/09	45		15	24		0.31		-0.05		0.12		0.09		0.019			4.54	25		25	130	-4.1	-4.1	130	3.82	170	-8.5%
MW4A	6/16/09	46		16	25		0.33		0.1		0.18		0.088		-0.050			4.72	29	0.15	27	140	-4.1	-4.1	140	4.19	180	-5.9%
MW4A	12/15/09		39	14		20		0.31		0.08		0.083		0.091				3.98	21	0.30	25	130	-4.1	-4.1	130	3.73	150	-3.2%
MW4A	12/14/10		44	14		24		0.30		0.20		0.11		0.098				4.41	36	0.088	22	130	-4.1	-4.1	130	4.08	170	-3.9%
MW4A	12/14/11		39	14		24		0.31		-0.0050		0.056		0.092				4.15	23	0.36	22	140	-4.1	-4.1	140	3.93	150	-2.7%
MW4A	12/19/12		41	14		23		0.21		0.029		0.061		0.085				4.21	25	0.10	19	150	-4.1	-4.1	150		160	0.0%
MW4A	12/11/13		35	12		21		0.24		0.060		0.074		0.083		-0.0092	-0.023	3.66	17	0.46	20	140	-4.1	-4.1	140		140	0.0%

Table 3

Historical Annual Standard Minerals Data
City of Ione - Wastewater Treatment Facility

Sample ID	Date	Total Calcium	Dissolved Calcium	Dissolved Magnesium	Total Sodium	Dissolved Sodium	Total Potassium	Dissolved Potassium	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Total Boron	Dissolved Boron	Total Arsenic	Dissolved Arsenic	Dissolved Aluminum	Cations (Calculated)	Chloride	Nitrate (as N)	Sulfate	Bicarbonate Alkalinity ($CaCO_3$)	Carbonate Alkalinity ($CaCO_3$)	Hydroxide Alkalinity ($CaCO_3$)	Total Alkalinity ($CaCO_3$)	Anions (Calculated)	Hardness	Percent difference between cations and anions
		Standard Minerals Analyses																										
		Cations																	Anions									
Analysis Method:		EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 206.2	EPA 200.8	EPA 200.7		EPA 300.0	EPA 300.0	EPA 300.0	EPA 310.1	EPA 310.1	EPA 310.1	EPA 310.1		Calc	
Practical Quantitation Limit		0.10	0.10	0.05	0.5	0.5	1.0	1.0	0.05	0.05	0.01	0.01	0.1	0.10	0.050		0.05		0.5	0.1	1.0	4.1	4.1	4.1	4.1		0.5	
Minimum Detection Limit		0.036	0.016	0.029	0.07	0.12	0.092	0.074	0.03	0.0093	0.0025	0.0025	0.012	0.0097	0.0083		0.023		0.059	0.026	0.21	4.1	4.1	4.1	4.1		0.1	
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq	mg/L	
MCL (2nd MCL or Ag-use threshold if shaded)						69			0.3	0.3	0.05	0.05			0.010	0.010			106	10	250							
MW4A	12/18/14		36	13		21		0.24		-0.030		0.042		0.083		-0.0092	-0.023	3.79	16	0.31	21	120	-4.1	-4.1	120		140	0.0%
MW4A	12/16/15		37	13		19		0.21		0.064		0.028		0.073		0.00040	-0.023	3.75	19	0.86	28	140	-4.1	-4.1	140		150	0.0%
MW4A	12/9/16		56	19		26		0.37		-0.030		0.028		0.091		-0.00038	-0.023		32	1.8	35	140	-4.1	-4.1	140		220	0.0%
MW4A	12/5/17		45	15		28		0.37		-0.030		0.043		0.100		-0.00038	-0.023		35	2.4	35	150	-4.1	-4.1	150		170	0.0%
MW4A	12/17/18		42	14		27		0.24		-0.030		0.033		0.075		-0.00038	0.0063		18	0.62	33	160	-4.1	-4.1	160		160	-
MW4A	12/16/19		42	14		29		0.16		-0.030		0.024		0.090		-0.00038	0.0180		25	0.57	29	150	-4.1	-4.1	150		160	-
MW4A	12/15/20		37	13		26		0.16		-0.030		0.017		0.086		-0.00038	0.0160		18	0.24	26	150	-4.1	-4.1	150		150	-
MW5A	12/31/07	47			24		0.61		0.32		0.28		0.095		-0.002			3.43	26	-0.05	26	130	-5.0	-5.0	130	3.87	178	6.1%
MW5A	7/2/08	38			17		0.62		0.65		0.27		0.071		-0.002			2.68	18	0.6	25	125	-5.0	-5.0	125	3.57	144	14.1%
MW5A	10/10/08	37			15		0.49		0.099		0.132		0.076		-0.002			2.52	11	0.85	26	116	-5.0	-5.0	116	3.23	128	12.4%
MW5A	12/30/08	38		13	16		0.57		0.017		0.088		0.084		-0.050			3.68	8.3	0.70	26	120	-4.1	-4.1	120	3.22	150	-6.6%
MW5A	3/12/09	47		15	21		0.57		0.026		0.21		0.091		0.011			4.52	23	0.44	30	140	-4.1	-4.1	140	4.10	180	-4.8%
MW5A	6/16/09	49		17	23		0.61		-0.03		0.17		0.086		-0.050			4.87	26	0.15	27	150	-4.1	-4.1	150	4.30	190	-6.1%
MW5A	12/15/09		37	13		15		0.61		-0.0093		0.079		0.085				3.59	19	0.60	22	120	-4.1	-4.1	120	3.43	150	-2.2%
MW5A	12/14/10		48	16		23		0.55		-0.0050		0.16		0.10				4.73	35	0.082	19	150	-4.1	-4.1	150	4.39	190	-3.8%
MW5A	12/14/11		37	13		20		0.58		-0.0050		0.23		0.084				3.81	15	0.83	22	130	-4.1	-4.1	130	3.54	150	-3.7%
MW5A	12/19/12		43	15		22		0.48		-0.0050		0.36		0.085					-	-	17	140	-4.1	-4.1	140		170	0.0%
MW5A	12/11/13		36	13		19		0.48		0.098		0.12		0.081		-0.0092	0.110		36	0.19	15	120	-4.1	-4.1	120		140	0.0%
MW5A	12/18/14		39	14		21		0.50		-0.030		0.042		0.083		-0.0092	-0.023		22	0.50	20	130	-4.1	-4.1	120		160	0.0%
MW5A	12/16/15		40	14		18		0.51		0.059		0.039		0.070		0.00038	-0.023		33	1.5	29	120	-4.1	-4.1	120		160	0.0%
MW5A	12/9/16		54	18		25		0.72		-0.030		0.086		0.091		-0.00038	-0.023		35	1.8	32	140	-4.1	-4.1	140		210	0.0%
MW5A	12/5/17		41	14		27		0.63		-0.030		0.24		0.11		-0.00038	-0.023		22	3.2	33	140	-4.1	-4.1	140		160	0.0%
MW5A	12/17/18		38	13		19		0.54		-0.030		0.059		0.070		-0.00038	-0.0030		15	0.99	26	140	-4.1	-4.1	140		150	-
MW5A	12/16/19		39	13		24		0.47		-0.030		0.240		0.092		-0.00038	-0.0030		20	0.73	26	140	-4.1	-4.1	140		150	-
MW5A	12/15/20		35	13		19		0.45		-0.030		0.13		0.076		-0.00038	0.0042		20	1.1	20	120	-4.1	-4.1	120		140	-
Sutter Creek Surface Water																												
SC1	10/1/04	46			38		3.18		0.11		0.11		0.24						47.0	-0.05	47						191	
SC2	10/1/04	46			38		3.18		0.11		0.11		0.24					4.04	47	-0.05	47					2.31	191	
SC2	10/4/05	33			29		2.85		0.35		0.38		0.23					3.01	30	0.36	20					1.29	134	
SC2	6/29/07	35		13	22		2		0.13		0.13		0.094		0.0026			3.83	21	0.37	32					1.29	141	
SC2	8/28/07	39		14	33		3.7		0.42		0.57		0.1		0.0031			4.66	32	-0.05	41					1.76	153	
SC2	10/30/08	41		16	35		2.7		0.149		0.261		0.18		0.0023			4.97	50	0.32	47					2.41	168	
SC2	12/29/08	33		11	11		1.8		0.087		0.10		0.04		-0.05			3.08	8.4	0.58	25					0.80	130	
SC2	3/12/09	28		9.8	8.2		1.2		0.37		0.05		0.033		0.0091			2.61	5.4	0.52	19					0.59	110	
SC2	6/16/09	34		13	20		2.0		0.27		0.18		0.091		-0.05			3.70	15	0.41	25					0.97	140	
SC2	12/16/09				9.2				0.087		0.048		0.042					0.41	7.7	0.62						0.26		
SC3	10/1/04	38			33		3.42		1.34		3.9		0.18					3.61	31	-0.05	22					1.33	158	
SC3	1/4/05	20			6.48		1.24		0.54		0.03		-0.1					1.33	5.7	0.99						0.23	79	
SC3	4/1/05	19			5		1.12		0.51		0.03		-0.1					1.21	3.8	0.33	11					0.36	71	
SC3	6/30/05	28			8		1.16		0.06		0.03		-0.05					1.78	6.6	0.14	14					0.49	108	
SC3	10/6/05	33			29		2.48		0.33		1.2		0.21					3.03	27.0	0.61	18					1.18	130	
SC3	2/10/06				7.03				0.291		0.032				0.0039			0.32	6.4	0.39	15					0.52	93	
SC3	5/26/06	24			5.61		1.22		0.218		0.035		-0.05		0.0039			1.48	5.7	0.15	12					0.42	90	
SC3	9/6/06	29			15		2.02		0.61		0.38		0.07		0.0034			2.19	12.0	0.56	21					0.82	111	
SC3	12/13/06	27			8.2		1.4		0.18		0.045		-0.05		0.0035			1.75	7.8	0.25	21					0.68	110	
SC3	3/14/07	22			6.6		1.22		0.18		0.053		-0.05		0.0049			1.42	5.8	0.18	16					0.51	96	
SC3	6/29/07	31		12	20		1.8		0.15		0.37		0.077		0.002			3.47	18.0	-0.05	25					1.03	125	
SC3	8/28/07	33		12	31		3.6		0.41		1.2		0.087		0.0029			4.13	23.0	0.12	23					1.14	131	
SC3	12/31/07	31		8.4	9.7		1.3		0.11		0.12		-0.05		0.0043			2.70	9.2	0.17	22					0.73	112	
SC3	8/28/07	33		12	31		3.6		0.41		1.2		0.087		0.0029			4.13	23.0	-0.05	23					1.13	131	
SC3	12/31/07	31		8.4	9.7		1.3		0.11		0.12		-0.05		0.0043			2.70	9.2	0.17	22					0.73	112	

Table 3

Historical Annual Standard Minerals Data
City of Ione - Wastewater Treatment Facility

Sample ID	Date	Standard Minerals Analyses																										
		Cations																	Anions									
		Total Calcium	Dissolved Calcium	Dissolved Magnesium	Total Sodium	Dissolved Sodium	Total Potassium	Dissolved Potassium	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Total Boron	Dissolved Boron	Total Arsenic	Dissolved Arsenic	Dissolved Aluminum	Cations (Calculated)	Chloride	Nitrate (as N)	Sulfate	Bicarbonate Alkalinity ($CaCO_3$)	Carbonate Alkalinity ($CaCO_3$)	Hydroxide Alkalinity ($CaCO_3$)	Total Alkalinity ($CaCO_3$)	Anions (Calculated)	Hardness	Percent difference between cations and anions
Analysis Method:		*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.8*	*EPA 200.7*		*EPA 300.0*	*EPA 300.0*	*EPA 300.0*	*EPA 310.1*	*EPA 310.1*	*EPA 310.1*	*EPA 310.1*		*Calc*	
Practical Quantitation Limit		0.10	*0.10*	*0.05*	*0.5*	*0.5*	*1.0*	*1.0*	*0.05*	*0.05*	*0.01*	*0.01*	*0.1*	*0.10*	*0.050*		*0.05*		*0.5*	*0.1*	*1.0*	*4.1*	*4.1*	*4.1*	*4.1*		*0.5*	
Minimum Detection Limit		0.036	*0.016*	*0.029*	*0.07*	*0.12*	*0.092*	*0.074*	*0.03*	*0.0093*	*0.0025*	*0.0025*	*0.012*	*0.0097*	*0.0083*		*0.023*		*0.059*	*0.026*	*0.21*	*4.1*	*4.1*	*4.1*	*4.1*		*0.1*	
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*meq*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*meq*	*mg/L*	
MCL (2nd MCL or Ag-use threshold if shaded)						*69*			*0.3*	*0.3*	*0.05*	*0.05*			*0.010*	*0.010*			*106*	*10*	*250*							
SC3	10/30/08	33		14	34		3.1		6.15		3.68		0.17		0.0120			4.71	44.0	0.08	31					1.89	138	

Table 3

Historical Annual Standard Minerals Data
City of Ione - Wastewater Treatment Facility

Sample ID	Date	Standard Minerals Analyses																										
		Cations																	Anions									
		Total Calcium	Dissolved Calcium	Dissolved Magnesium	Total Sodium	Dissolved Sodium	Total Potassium	Dissolved Potassium	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Total Boron	Dissolved Boron	Total Arsenic	Dissolved Arsenic	Dissolved Aluminum	Cations (Calculated)	Chloride	Nitrate (as N)	Sulfate	Bicarbonate Alkalinity ($CaCO_3$)	Carbonate Alkalinity ($CaCO_3$)	Hydroxide Alkalinity ($CaCO_3$)	Total Alkalinity ($CaCO_3$)	Anions (Calculated)	Hardness	Percent difference between cations and anions
Analysis Method:		*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 200.7*	*EPA 206.2*	*EPA 200.8*	*EPA 200.7*		*EPA 300.0*	*EPA 300.0*	*EPA 300.0*	*EPA 310.1*	*EPA 310.1*	*EPA 310.1*	*EPA 310.1*		*Calc*	
Practical Quantitation Limit		0.10	*0.10*	*0.05*	*0.5*	*0.5*	*1.0*	*1.0*	*0.05*	*0.05*	*0.01*	*0.01*	*0.1*	*0.10*	*0.050*		*0.05*		*0.5*	*0.1*	*1.0*	*4.1*	*4.1*	*4.1*	*4.1*		*0.5*	
Minimum Detection Limit		0.036	*0.016*	*0.029*	*0.07*	*0.12*	*0.092*	*0.074*	*0.03*	*0.0093*	*0.0025*	*0.0025*	*0.012*	*0.0097*	*0.0083*		*0.023*		*0.059*	*0.026*	*0.21*	*4.1*	*4.1*	*4.1*	*4.1*		*0.1*	
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*meq*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*meq*	*mg/L*	
MCL (2nd MCL or Ag-use threshold if shaded)						*69*			*0.3*	*0.3*	*0.05*	*0.05*			*0.010*	*0.010*			*106*	*10*	*250*							
SC4	10/1/04	34			21		3.53		0.42		0.11		0.11					2.72	27	1	58					2.04	148	
SC4	10/4/05	32			23		1.97		0.15		0.08		0.16					2.66	19	1.3	24					1.13	134	
SC4	9/6/06	27			13		2.04		0.3		0.037		0.06		0.0021			1.98	9.9	0.71	20					0.75	111	
SC4	6/29/07	31		12	12		1.5		0.15		0.036		0.062		-0.002			3.10	10	0.68	24					0.83	125	
SC4	12/29/08	30		10	9.6		1.5		0.018		0.0079		0.032		-0.050			2.78	7.3	0.57	24					0.75	125	
SC4	3/12/09	27		9.4	7.6		1.2		0.37		0.028		0.03		0.013			2.50	5.1	0.54	19					0.58	110	
SC4	6/16/09	35		13	16		1.5		0.08		0.029		0.074		-0.05			3.55	9.5	0.91	24					0.83	140	
SC4	12/16/09				8.7				0.11		0.0099		0.037					0.38	7.0	0.61						0.24		
SC4+	8/28/07	32		12	14		2.6		0.094		0.19		0.057		-0.002			3.27	10	0.18	37					1.07	131	
SC4+	10/30/08	40		15	23		1.8		0.253		0.226		0.16		-0.002			4.29	20	0.16	92					2.49	162	
SC5	10/13/04																											
SC5	10/4/05																											
SC6	10/14/04	31			72		17		0.37		0.05		0.23					5.13	99	1.5	57					4.09	128	
SC6	10/4/05	41			30		5.41		0.13		0.16		0.15					3.50	40	4.2	120					3.93	171	
SC6	6/29/07	18		8.5	19		3.5		0.09		0.014		0.056		-0.002			2.52	22	1.2	45					1.64	80	
SC6	8/28/07	35		15	45		9.2		0.23		0.028		0.12		0.002			5.18	60	2.7	87					3.70	149	
SC6	10/30/08	22		11	16		2.5		0.294		0.032		0.061		-0.002			2.77	26	4.1	64					2.36	101	
Water Wells																												
Scully Well #1	1/20/06	50		17	39.8				0.57		-0.02				-0.002			5.65	31	0.1		217	-5.0	-5.0	217	5.22		-3.9%
Scully Well #1	6/1/06	54			38.1		1.31		0.083		-0.02		0.14		-0.002			4.39	32	0.44		219			219	5.31		9.5%
Scully Well #1	9/19/06	51		18	37				-0.05		-0.02		0.19		-0.002			5.64	31	0.29		212	-5.0	-5.0	212	5.13		-4.7%
Scully Well #1	12/12/06	52		17	38				3.7		0.072		0.19		-0.002			5.78	29	0.078		201	-5.0	-5.0	201	4.84		-8.9%
Scully Well #1	3/23/07	50		16	36.2				0.069		-0.02		0.18		-0.002			5.39	32	0.35		203	-5.0	-5.0	203	4.98		-3.9%
Scully Well #1	6/26/07	52		16	38				0.209		-0.005		0.19		-0.002			5.57	29	0.18		203	-5.0	-5.0	203	4.89		-6.5%
Scully Well #1	9/28/07	41		14	36				0.1		-0.005		0.17		-0.002			4.77	28	-0.05		171	-5.0	-5.0	171	4.21		-6.2%
Scully Well #1*	3/22/10		46	16		41		1.50		0.26		0.01		0.190	-0.019			5.44	37	0.063		190	-4.1	-4.1	190	4.84	180	-5.8%
Scully Well #2	1/20/06	42		13	15.1				17		0.027				-0.002			4.43	24	0.47		117	-5.0	-5.0	117	3.05		-18.5%
Scully Well #2*	3/22/10		44	16		18		0.36		0.2		0.0079		0.069	-0.019			4.31	34	0.15		130	-4.1	-4.1	130	3.57	170	-9.4%
Sparrowk Well	1/20/06	39		13	12.4				0.3		0.020				0.002			3.57	11	2.4	28	121	-5.0	-5.0	121	3.48	149	-1.2%

Notes:

Negative (-) values indicate less than the detection limit

* March 22, 2010 metals results for dissolved constituents

Green shaded cells indicate questionable or qualified analyses (e.g. exceeded hold time).

Blue shaded cells indicate estimated value detected above minimum detection level but below practical quantitation limit.

APPENDIX A

WELL PURGING AND SAMPLING FORMS

Project City of Ione - Wastewater Treatment Facility and Castle Oaks Golf Course
Project Number ~~2nd~~ Quarter 2021 3rd Quarter
Date ~~6/22/2021~~ 9/21/21
Field Technician C. Strong

Parameter	Instrument	Temp (°C)	Calibration Value	Pre--Calibration	Post Calibration
pH 4.0	Hanna Multi-Meter	24.2	4.0	4.10	4.00
pH 7.0	Hanna Multi-Meter		7.0	7.05	7.00
pH 10.0	Hanna Multi-Meter		10.0	10.12	10.0
EC	Hanna Multi-Meter		1413	1402	1413
ORP	Pinpoint Amer.Mar.		220	220	220
DO	Milwuakee MW600		100%	94%	100%

Project
Project Number
Date
Field Technician

Parameter	Instrument	Temp (°C)	Calibration Value	Pre--Calibration	Post Calibration
pH 4.0	Hanna Multi-Meter				
pH 7.0	Hanna Multi-Meter				
pH 10.0	Hanna Multi-Meter				
EC	Hanna Multi-Meter				
ORP	Pinpoint Amer.Mar.				
DO	Milwuakee MW600				

Project
Project Number
Date
Field Technician

Parameter	Instrument	Temp (°C)	Calibration Value	Pre--Calibration	Post Calibration
pH 4.0	Hanna Multi-Meter				
pH 7.0	Hanna Multi-Meter				
pH 10.0	Hanna Multi-Meter				
EC	Hanna Multi-Meter				
ORP	Pinpoint Amer.Mar.				
DO	Milwuakee MW600				

Groundwater Measurement Field Form

Project Name:	City of Ione - WWTF
Sampling Event:	~~1st~~ Quarter 2021 3rd Quarter
Samplers:	C. Strong

Date:	9/19 + 9/21/21
Conditions:	

EcoUrban Associates

Decontamination Method Triple Rinse / Dedicated bailer

Well Identification	Diameter of Casing	Time	Depth to Water 1	Depth to Water 2	Total Depth	Comments
MW-1	2	14:00	16.65	16.65	27.01	9/21/21
MW-1A		14:23	16.91	16.91	42.57	
MW-2		10:55	17.29	17.29	26.11	
MW-2A		11:45	20.60	20.60	27.80	
MW-3		9:15	20.20	20.20	30.03	
MW-3A		15:08	24.50	24.50	32.70	
MW-4		9:40	16.65	16.65	30.15	
MW-4A		10:12	13.09	13.09	27.96	
MW-5A	4	12:12	12.27	12.27	28.01	
P-1	2	15:00	12.08	12.08	28.17	9/19/21
P-2	2	16:00	20.03	20.03	28.12	9/19/21
P-3	4	13:13	24.10	24.10	34.33	9/21/21
MW 8-1	4	14:05	7.81	7.81	27.41	9/19/21
MW 8-2A		14:25	15.67	15.67	32.51	
MW 8-2B		14:25	15.20	15.20	19.90	
MW 8-3		14:40	12.59	12.59	26.83	
MW 8-4A		16.14	21.74	21.74	36.53	
MW 8-4B		16.15	18.96	18.96	19.38	
P-5B		12.42	11.65	11.65	17.61	9/21/21

Field Notes

Groundwater Monitoring Field Form

Project Name:	City of Ione - Wastewater Facility	**Well ID:**	MW-1
Sampling Event	3rd Quarter 2021	**Date:**	9/21/2021
Samplers:	C. Strong	**Conditions:**	Sunny & hot

Decontamination Method Triple Rinse / Dedicated bailer

Well Details	Well Casing Diameter (")	Depth to Water	Total Depth	Water Column	Multiplier	Well Volume	80% Recovry Lvl
Calc'd gallons to be purged: 5.07	Actual gallons purged 5.5	16.65	27.01	10.36	—	1.69	
Multipiers: 0.75" = 0.0229; 2" = 0.163; 4" = 0.653; 6" = 1.03		*Measuring Point: MOC / North Side Casing*					

Purge Data Purge Method:

Time	Vol. Purged	DTW	Temp	pH	EC (µS.cm)	TDS (mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? free product? water level?)
14:00	1	—	20.0	7.07	261	186	5.24	141	slight	tan
14:08	3	—	20.9	692	267	189	5.39	167	mod	"
14:14	5.5	16.72	19.7	671	272	194	4.72	161	mod	"
Total/Average										

Sampling Data

Depth to Water at time of sampling:	16.72	Samples kept Preserved on ice? Y N	Sample ID / Time
Sample ID:	MW-1		
Sample Time:	14:15	Duplicate Samples Collected Y N	
Sample Collection Method:	bailer	Rinsate Samples Collected Y N	

Containers Used: (1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly H2SO4
(1) 500mL Poly HNO3 - ~~FIELD~~ LAB FILTERED

Field Notes

Groundwater Monitoring Field Form

Project Name:	City of Ione - Wastewater Facility	**Well ID:**	MW-1A
Sampling Event	3rd Quarter 2021	**Date:**	9/21/2021
Samplers:	C. Strong	**Conditions:**	Sunny & hot

EcoUrban Associates

Decontamination Method Triple Rinse / Dedicated bailer transported from MW-2A

Well Details	Well Casing Diameter (")	Depth to Water	Total Depth	Water Column	Multiplier	Well Volume	80% Recovry Lvl
Calc'd gallons to be purged: 12.58	Actual gallons purged 13	16.91	42.57	25.66	—	4.19	
Multipiers: 0.75" = 0.0229; 2" = 0.163: 4" = 0.653; 6" = 1.03		*Measuring Point: MOC / North Side Casing*					

Purge Data Purge Method:

Time	Vol. Purged	DTW	Temp	pH	EC (µS.cm)	TDS (mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? free product? water level?)
14:25	1	—	21.7	6.63	401	287	1.97	208	slight	brnish tea color
14:40	6	—	20.5	6.66	382	271	1.80	209	"	" " "
14:55	12	16.95	20.8	6.67	429	290	1.31	199	"	" " "
Total/Average										

Sampling Data

Depth to Water at time of sampling:	16.95	Samples kept Preserved on ice? Y N	
Sample ID:	MW-1A		Sample ID / Time
Sample Time:	14:55	Duplicate Samples Collected Y N	
Sample Collection Method:		Rinsate Samples Collected Y N	

Containers Used: (1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly H2SO4
(1) 500mL Poly HNO3 - ~~FIELD~~ FILTERED
LAB

Field Notes

Groundwater Monitoring Field Form

Project Name:	City of Ione - Wastewater Facility
Sampling Event	3rd Quarter 2021
Samplers:	C. Strong

Well ID:	MW-2
Date:	9/21/2021
Conditions:	sunny am

EcoUrban Associates

Decontamination Method Triple Rinse / Dedicated bailer

4:32

Well Details Well Casing Diameter (”): 2

Calc'd gallons to be purged: ~~[illegible]~~ Actual gallons purged 4.5

Multipiers: 0.75” = 0.0229; 2” = 0.163: 4” = 0.653; 6” = 1.03

Depth to Water	Total Depth	Water Column	Multiplier	Well Volume	80% Recovry Lvl
17.29	26.11	8.82	—	1.44	

Measuring Point: MOC / North Side Casing

Purge Data Purge Method:

Time	Vol. Purged	DTW	Temp	pH	EC (µS.cm)	TDS (mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? free product? water level?)
10:57	1	—	23.3	6.53	463	329	3.25	208	mod	tan
11:05	2.5	—	21.7	6.57	478	338	1.03	126	"	"
11:12	4.5	17.32	21.1	6.60	527	374	0.83	36		
Total/Average										

Sampling Data

Depth to Water at time of sampling:	17.32
Sample ID:	MW-2
Sample Time:	11:15
Sample Collection Method:	

Samples kept Preserved on ice? Y N

Duplicate Samples Collected Y N

Rinsate Samples Collected Y N

Sample ID / Time

Containers Used: (1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly H2SO4
(1) 500mL Poly HNO3 - ~~FIELD~~ LAB FILTERED

Field Notes

Groundwater Monitoring Field Form

Project Name:	City of Ione - Wastewater Facility	**Well ID:**	MW-2A
Sampling Event	3rd Quarter 2021	**Date:**	9/21/2021
Samplers:	C. Strong	**Conditions:**	sunny, hot

EcoUrban Associates

Decontamination Method Triple Rinse / Dedicated bailer

Well Details Well Casing Diameter (”): 2

Calc'd gallons to be purged: 3.54 | Actual gallons purged 4

Multipiers: 0.75" = 0.0229; 2" = 0.163: 4" = 0.653; 6" = 1.03

Depth to Water	Total Depth	Water Column	Multiplier	Well Volume	80% Recovry Lvl
20.60	27.80	7.20	—	1.18	

Measuring Point: MOC / North Side Casing

Purge Data Purge Method:

Time	Vol. Purged	DTW	Temp	pH	EC (µS.cm)	TDS (mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? free product? water level?)
11:50	1	—	24.0	7.22	516	366	2.98	47	clear	—
11:58	2	—	20.9	6.89	512	362	2.17	-27	"	"
12:03	4	20.62	21.2	6.80	512	365	1.17	-68	"	"
Total/Average										

Sampling Data

Depth to Water at time of sampling:	~~62~~ 20.62	Samples kept Preserved on ice?	Y N
Sample ID:	MW-2A		Sample ID / Time
Sample Time:	12:05	Duplicate Samples Collected	Y N
Sample Collection Method:		Rinsate Samples Collected	Y N

Containers Used: (1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly H2SO4
(1) 500mL Poly HNO3 - ~~FIELD~~ LAB FILTERED

Field Notes

Groundwater Monitoring Field Form

Project Name:	City of Ione - Wastewater Facility
Sampling Event	3rd Quarter 2021
Samplers:	C. Strong

Well ID:	MW-3
Date:	9/21/2021
Conditions:	Sunny

EcoUrban Associates

Decontamination Method Triple Rinse / Dedicated bailer

Well Details Well Casing Diameter (”): 2

Calc'd gallons to be purged: 4.88 Actual gallons purged 5

Multipiers: 0.75” = 0.0229; 2” = 0.163; 4” = 0.653; 6” = 1.03

Depth to Water	Total Depth	Water Column	Multiplier	Well Volume	80% Recovry Lvl
20.20	30.03	9.83	—	1.60	22.17

Measuring Point: MOC / North Side Casing

Purge Data Purge Method:

Time	Vol. Purged	DTW	Temp	pH	EC (µS.cm)	TDS (mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? free product? water level?)
9:18	1	—	18.6	6.74	500	254	1.92	213	slight	orangy-tan
9:27	2.5	—	18.1	6.92	496	352	2.75	210	"	" "
9:35	5	20.21	18.5	6.80	502	356	2.92	210	slight to moderate	" "
Total/Average										

Sampling Data

Depth to Water at time of sampling:	20.21 ~~9.39~~	Samples kept Preserved on ice?	Y N
Sample ID:	MW-3		Sample ID / Time
Sample Time:	9:39	Duplicate Samples Collected	Y N
Sample Collection Method:		Rinsate Samples Collected	Y N

Containers Used: (1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly H2SO4
(1) 500mL Poly HNO3 - ~~FIELD~~ FILTERED
LAB

Field Notes

Groundwater Monitoring Field Form

Project Name:	City of Ione - Wastewater Facility	**Well ID:**	MW-3A
Sampling Event	3rd Quarter 2021	**Date:**	9/21/2021
Samplers:	C. Strong	**Conditions:**	Sunny + Warm

EcoUrban Associates

Decontamination Method Triple Rinse / Dedicated bailer

Well Details Well Casing Diameter (”):

Calc'd gallons to be purged: 4.02 Actual gallons purged 4.5

Multipiers: 0.75” = 0.0229; 2” = 0.163; 4” = 0.653; 6” = 1.03

Depth to Water	Total Depth	Water Column	Multiplier	Well Volume	80% Recovry Lvl
24.50	32.70	8.20	–	1.34	

Measuring Point: MOC / North Side Casing

Purge Data Purge Method:

	Time	Vol. Purged	DTW	Temp	pH	EC (µS.cm)	TDS (mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? free product? water level?)
15:10	13	1	–	22.2	6.25	462	322	2.58	170		
15:19	13:17	2.5	–	20.4	6.82	468	333	1.26	105		
15:25	~~13:15~~	4.5	24.50	21.1	6.80	475	336	0.76	55		
Total/Average											

Sampling Data

Depth to Water at time of sampling: 24.50

Sample ID: MW-3A

Sample Time: 15:25

Sample Collection Method:

Samples kept Preserved on ice? (Y) N

Duplicate Samples Collected Y (N)

Rinsate Samples Collected Y (N)

Sample ID / Time

Containers Used: (1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly H2SO4
(1) 500mL Poly HNO3 - ~~FIELD~~ LAB FILTERED

Field Notes

Groundwater Monitoring Field Form

Project Name:	City of Ione - Wastewater Facility	**Well ID:**	MW-4
Sampling Event	3rd Quarter 2021	**Date:**	9/21/2021
Samplers:	C. Strong	**Conditions:**	sunny

EcoUrban Associates

Decontamination Method Triple Rinse / Dedicated bailer

Well Details Well Casing Diameter (”):

Calc'd gallons to be purged: 6 | Actual gallons purged 7.0

Multipiers: 0.75” = 0.0229; 2” = 0.163; 4” = 0.653; 6” = 1.03

Depth to Water	Total Depth	Water Column	Multiplier	Well Volume	80% Recovry Lvl
16.65	30.15	13.5	-	2.20	19.35

Measuring Point: MOC / North Side Casing

Purge Data Purge Method:

Time	Vol. Purged	DTW	Temp	pH	EC (µS.cm)	TDS (mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? free product? water level?)
9:44	1	-	20.2	6.94	464	329	1.80	205	clear	
9:52	3.5	-	19.9	6.74	446	318	1.53	202	"	
10:03	7.0	16.65	19.1	6.72	451	319	1.79	200	"	
Total/Average										

Sampling Data

Depth to Water at time of sampling:	16.65	Samples kept Preserved on ice? (Y) N	
Sample ID:	MW-4		Sample ID / Time
Sample Time:	10:05	Duplicate Samples Collected Y (N)	
Sample Collection Method:	bailer	Rinsate Samples Collected Y (N)	

Containers Used: (1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly H2SO4
(1) 500mL Poly HNO3 - ~~FIELD~~ LAB FILTERED

Field Notes

Groundwater Monitoring Field Form

Project Name:	City of Ione - Wastewater Facility	**Well ID:**	MW-4A
Sampling Event	3rd Quarter 2021	**Date:**	9/21/2021
Samplers:	C. Strong	**Conditions:**	sunny

EcoUrban Associates

Decontamination Method Triple Rinse / Dedicated bailer

Well Details Well Casing Diameter (”):

Calc'd gallons to be purged: 7.29 Actual gallons purged 7.5

Multipiers: 0.75" = 0.0229; 2" = 0.163: 4" = 0.653; 6" = 1.03

Depth to Water	Total Depth	Water Column	Multiplier	Well Volume	80% Recovry Lvl
13.09	27.96	14.87	—	2.43	

Measuring Point: MOC / North Side Casing

Purge Data Purge Method:

Time	Vol. Purged	DTW	Temp	pH	EC (µS.cm)	TDS (mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? free product? water level?)
10:14	1	—	20.6	6.55	281	395	2.63	197	moderate	foam w/ orange
10:27	4.5	—	19.1	6.70	272	388	1.37	202	"	
10:35	7.5	13.12	18.7	6.68	270	376	1.07	203		
Total/Average										

Sampling Data

Depth to Water at time of sampling: 13.12

Sample ID: MW-4A

Sample Time: 10:35

Sample Collection Method:

Samples kept Preserved on ice? Y N

Duplicate Samples Collected Y N

Rinsate Samples Collected Y N

Sample ID / Time

Containers Used: (1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly H2SO4

(1) 500mL Poly HNO3 - ~~FIELD~~ LAB FILTERED

Field Notes

Groundwater Monitoring Field Form

Project Name:	City of Ione - Wastewater Facility	**Well ID:**	MW-5A
Sampling Event	3rd Quarter 2021	**Date:**	9/21/2021
Samplers:	C. Strong	**Conditions:**	sunny + warm to hot!

EcoUrban Associates

Decontamination Method Triple Rinse / Dedicated bailer : transported from 2A MW to dry. needed longer rope

Well Details	Well Casing Diameter (''): 4	Depth to Water	Total Depth	Water Column	Multiplier	Well Volume	80% Recovry Lvl
Calc'd gallons to be purged: 30.83	Actual gallons purged 31	12.27	28.01	15.74	-	10.23	15.42
Multipiers: 0.75" = 0.0229; 2" = 0.163: 4" = 0.653; 6" = 1.03		*Measuring Point: MOC / North Side Casing*					

Purge Data Purge Method:

Time	Vol. Purged	DTW	Temp	pH	EC (µS.cm)	TDS (mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? free product? water level?)
12:15	1	—	19.1	6.67	332	231				
12:41	15	—	18.4	6.57	320	227	2.90	107	moderate tan color	
13:10	31	13.67	20.2	7.02	315	223	2.89	129		
Total/Average										

Sampling Data

Depth to Water at time of sampling:	13.67	Samples kept Preserved on ice?	Y N
Sample ID:	MW-5A		Sample ID / Time
Sample Time:	13:10	Duplicate Samples Collected	Y N
Sample Collection Method:	bailer	Rinsate Samples Collected	Y N

Containers Used: (1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly H2SO4
(1) 500mL Poly HNO3 - ~~FIELD~~ LAB FILTERED

Field Notes small roots observed in bailer

Groundwater Monitoring Field Form

Project Name:	City of Ione - Wastewater Facility	**Well ID:**	P-3
Sampling Event	3rd Quarter 2021	**Date:**	9/21/2021
Samplers:	C. Strong	**Conditions:**	sunny & hot

EcoUrban Associates

Decontamination Method Triple Rinse / Dedicated bailer

Well Details Well Casing Diameter (''): 4

Calc'd gallons to be purged: 20.94 | Actual gallons purged 21

Multipiers: 0.75" = 0.0229; 2" = 0.163; 4" = 0.653; 6" = 1.03

Depth to Water	Total Depth	Water Column	Multiplier	Well Volume	80% Recovry Lvl
24.10	34.33	10.23	—	~~6.68~~	26.15

Measuring Point: MOC / North Side Casing 6.68

Purge Data Purge Method:

Time	Vol. Purged	DTW	Temp	pH	EC (µS.cm)	TDS (mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? free product? water level?)
13:15	1	—	23.5	6.62	449	315	2.77	116	clear	to slight, tan color
13:30	12	—	21.4	6.66	457	324	2.70	23	moderate	grayish brown color
13:45	21	24.10	21.2	6.71	456	324	2.73	-15	mod	grayish brown
Total/Average										

Sampling Data

Depth to Water at time of sampling:	24.10	Samples kept Preserved on ice?	(Y) N
Sample ID:	P-3		Sample ID / Time
Sample Time:	13:45	Duplicate Samples Collected	Y (N)
Sample Collection Method:		Rinsate Samples Collected	Y (N)

Containers Used: (1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly H2SO4
(1) 500mL Poly HNO3 - ~~FIELD~~ LAB FILTERED

Field Notes

Groundwater Monitoring Field Form

Project Name:	City of Ione - Wastewater Facility
Sampling Event	3rd Quarter 2021
Samplers:	C. Strong

Well ID:	P-5B
Date:	9/21/2021
Conditions:	Sunny

EcoUrban Associates

Decontamination Method Triple Rinse / Dedicated bailer

Well Details Well Casing Diameter (''): 2

Calc'd gallons to be purged: 2.91 Actual gallons purged 3.0

Multipiers: 0.75" = 0.0229; 2" = 0.163; 4" = 0.653; 6" = 1.03

Depth to Water	Total Depth	Water Column	Multiplier	Well Volume	80% Recovry Lvl
11.65	17.61	5.96	—	0.97	12.84

Measuring Point: MOC / North Side Casing

Purge Data Purge Method:

Time	Vol. Purged	DTW	Temp	pH	EC (µS.cm)	TDS (mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? free product? water level?)
12:45	1	—	21.8	678	321	228	2.10	75	clear	
12:47	2	—	20.2	656	304	214	2.13	84	slight	foam
12:50	3		19.1	658	324	231	2.07	99		
Total/Average										

Sampling Data

Depth to Water at time of sampling:	
Sample ID:	P-5B
Sample Time:	12:55
Sample Collection Method:	

Samples kept Preserved on ice? (Y) N

Sample ID / Time

Duplicate Samples Collected Y (N)

Rinsate Samples Collected Y (N)

Containers Used: (1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly H2SO4
(1) 500mL Poly HNO3 - FIELD FILTERED

Field Notes

~~Some small rocks in purged gal bottle, line smell near depth.~~
~~Not coming to smoke 422~~

APPENDIX B

LABORATORY ANALYTICAL REPORTS
CHAIN OF CUSTODY RECORD

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 10/05/2021

Christopher Strong

EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Client Project:	City of Ione Groundwater Monitoring WWTP
BCL Project:	City of Ione Groundwater Monitoring WWTP
BCL Work Order:	2130009
Invoice ID:	B430771

Enclosed are the results of analyses for samples received by the laboratory on 9/22/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Ragen Schallock
Client Service Rep

Stuart Buttram
Technical Director

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Chain of Custody and Cooler Receipt Form for 2130009 Page 1 of 4

BC LABORATORIES
4100 Atlas Court Bakersfield, Ca 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

3.2 3.1

Chain of Custody

* Required Fields 21-3000 9

Report Attention: Christopher Strong

PACT# 21-300057

TEMP:

Client/Company Name *: EcoUrban Associates

Phone * * (209) 487-4802 FAX * #

Address *: 531 W. Marlette St. City *: Ione State *: CA Zip *: 95640

E-mail: cstrong@ecourbandesigns.com

Project Information: City of Ione GW Monitoring WWTP

PO #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☑ EDD ☐ Mail Only

EDF Quote #

Sampler Name Printed / Signature

QC Request: ☐ STD ☐ Level II

Rush Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 3 Day** ☐ Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other

Regulatory Compliance: Electronic Data Transfer Y ☐ N ☐ System No *

Matrix Types: RSW = Raw Surface Water, RGW = Raw Ground Water, CFW = Chlorinated Finished Water, FW = Finished Water, CWW = Chlorinated Waste Water, WW = Waste Water, BW = Bottled Water, DW = Drinking Water, SW = Storm Water, SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Descriptions / Locations *	Matrix *	Comments / Station Code	TDS, Nitrate-N	NH3	Dissolved Iron & Manganese	Total Coliform (SSS)
-1		9/21/21	14:15	MW-1	RGW		✓	✓	✓	✓
-2			14:55	MW-1A	RGW		✓	✓	✓	✓
-3			11:15	MW-2	RGW		✓	✓	✓	✓
-4			12:15	MW-2A	RGW		✓	✓	✓	✓
-5			9:35	MW-3	RGW		✓	✓	✓	✓
-6			15:45	MW-3A	RGW		✓	✓	✓	✓
-7			10:05	MW-4	RGW		✓	✓	✓	✓
-8			10:35	MW-4A	RGW		✓	✓	✓	✓
-9			13:10	MW-5A	RGW		✓	✓	✓	✓
-10			13:45	P-3	RGW		✓	✓	✓	✓
-11			12:55	P-03	RGW		✓	✓	✓	✓

Relinquished by: (Signature and Printed Name) — Company: EcoUrban — Date: 9/21/21 — Time: 16:00 — Received by: (Signature and Printed Name) — Company: BC LABS

Relinquished by: (Signature and Printed Name) — Company: BC LABS — Date: 9/21/21 — Time: 18:30 — Received by: (Signature and Printed Name) — Company: BC — Date: 9-22-21 — Time: 9:34

Received for Lab by: (Signature and Printed Name) — Date — Time — Payment Received at Delivery: Date — Amount — Check/Cash/Card — PIA #

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: Packing Material

CHECK BY: WEET BLUE NONE

DISTRIBUTION: WHITE

SUB OUT ☐

SHORT HOLDING TIME

Cr+6 NO2 OP SS

DO Cl2 BOD MBAS COT

Chain of Custody and Cooler Receipt Form for 2130009 Page 2 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 3

Submission #: 21-30009 (Batch: 21-30007)

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ GSO / GLS ☑ Hand Delivery ☐
BC Lab Field Service ☐ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☑ NO ☐
SW / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☐ YES ☑ NO

Emissivity: 0.95 Container: PE Thermometer ID: 274 Date/Time 8.22.21

Temperature: (A) 0.6 °C / (C) 0.5 °C Analyst Ini SMH 9:34

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES			A		A	A	A	A		
4oz / 8oz / 16oz PE UNPRES										
2oz Cr⁺⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL	(A)	(A)	(A)	(A)	(A)	(A)	(A)			
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

CHK BY ☑ DISTRIBUTION WK SUB-OUT ☐

Comments:
Sample Numbering Completed By: JAP Date/Time: 8.22.21 1350
A = Actual / C = Corrected

Rev 32 04/13/21

Chain of Custody and Cooler Receipt Form for 2130009 Page 3 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 3

Submission #: 21-20009

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ GSO / GLS ☑ Hand Delivery ☐
BC Lab Field Service ☐ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☑ NO ☐
W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 224 Date/Time 9.22.21
Temperature: (A) 0.6 °C / (C) 0.5 °C Analyst Init SMH 9:34

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	A	A		A					A	A
4oz / 8oz / 16oz PE UNPRES Metals	B	B	D	B	B	B	B	B	B	B
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS	C	C	C	C	C	C	C	C	C	C
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL								(A)	(A)	(A)
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.3/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: JAI Date/Time: 9-22-21 1350
A = Actual / C = Corrected

Rev 22 04/13/21
[S:\WP\Doc\Word\Perfect_AE_DOC\MF\CHMMS\MREC.rev 22]

Chain of Custody and Cooler Receipt Form for 2130009 Page 4 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Page 23 Of 23

Submission #: 21-30009 JAL 9-22

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ GSO / GLS ☑ Hand Delivery ☐
BC Lab Field Service ☐ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☑ NO ☐
(W) / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 274 Date/Time 9-22-21
Temperature: (A) 0.6 °C / (C) 0.5 °C Analyst Init SMH 9:34

SAMPLE CONTAINERS	SAMPLE NUMBERS 1 (1)	2	3	4	5	6	7	8	9	10
QT PE UNPRES	A									
4oz / 8oz / (16oz) PE UNPRES Metals	B									
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS	C									
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
Pta PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL	(A)									
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: JAL Date/Time: 9-22-21 1350
A = Actual / C = Corrected

Rev 22 04/13/21
Z:\WP Docs\Forms\Perform_All_DOCS\FORMS\SAMREC rev 30

EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2130009-01	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 14:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-1	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2130009-02	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 14:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-1A	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2130009-03	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 11:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2130009-04	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 12:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2A	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2130009-05	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 09:39
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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Ione, CA 95640

Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2130009-06	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 15:25
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3A	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2130009-07	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 10:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-4	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2130009-08	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 10:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-4A	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2130009-09	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 13:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-5A	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2130009-10	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 13:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	P-3	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 10/05/2021 16:18 Project: City of Ione Groundwater Monitoring WWTP Project Number: City of Ione Groundwater Monitoring WWTP Project Manager: Christopher Strong

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2130009-11	**COC Number:**	—	**Receive Date:**	09/22/2021 09:34
	Project Number:	—	**Sampling Date:**	09/21/2021 12:55
	Sampling Location:	—	**Sample Depth:**	—
	Sampling Point:	P-5B	**Lab Matrix:**	Water
	Sampled By:	—	**Sample Type:**	Groundwater
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID: 2130009-01 | **Client Sample Name:** MW-1, 9/21/2021 2:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	0.44	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	200	mg/L	10	5.0	EPA-160.1	ND		2
Ammonia as N	0.14	mg/L	0.20	0.067	EPA-350.1	0.080	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	09/22/21 13:00	09/22/21 16:13	KEB	IC1	1	B120435	No Prep
2	EPA-160.1	09/24/21 11:30	09/24/21 11:30	CAD	MANUAL	1	B120607	No Prep
3	EPA-350.1	09/29/21 00:26	09/29/21 13:24	JMH2	SC-1	1.033	B120908	No Prep

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Ione, CA 95640

Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2130009-01 | **Client Sample Name:** MW-1, 9/21/2021 2:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese	**0.0032**	**mg/L**	**0.0010**	**0.000040**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	09/24/21 12:32	09/24/21 16:28	JRG	WinLabICP	1	B120627	EPA 200.7 Dissolved
2	EPA-200.8	09/23/21 13:58	09/24/21 10:51	KHS	PE-EL2	1	B120569	EPA 200.8 Dissolved

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID: 2130009-02 | **Client Sample Name:** MW-1A, 9/21/2021 2:55:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	2.8	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	320	mg/L	20	10	EPA-160.1	ND	A10	2
Ammonia as N	0.16	mg/L	0.20	0.067	EPA-350.1	0.080	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	09/22/21 13:00	09/22/21 17:38	KB1	IC1	1	B120435	No Prep
2	EPA-160.1	09/24/21 11:30	09/24/21 11:30	CAD	MANUAL	2	B120607	No Prep
3	EPA-350.1	09/29/21 00:26	09/29/21 14:56	JMH2	SC-1	1.036	B120908	No Prep

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2130009-02 | **Client Sample Name:** MW-1A, 9/21/2021 2:55:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese	**0.0021**	**mg/L**	**0.0010**	**0.000040**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	09/24/21 12:32	09/24/21 16:39	JRG	WinLabICP	1	B120627	EPA 200.7 Dissolved
2	EPA-200.8	09/23/21 14:00	09/24/21 11:57	KHS	PE-EL2	1	B120569	EPA 200.8 Dissolved

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Ione, CA 95640

Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID: 2130009-03 | **Client Sample Name:** MW-2, 9/21/2021 11:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	**370**	**mg/L**	**20**	**10**	**EPA-160.1**	ND	**A10**	2
Ammonia as N	**2.8**	**mg/L**	**0.20**	**0.067**	**EPA-350.1**	0.080		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	09/22/21 13:00	09/22/21 18:00	KB1	IC1	1	B120435	No Prep
2	EPA-160.1	09/24/21 11:30	09/24/21 11:30	CAD	MANUAL	2	B120607	No Prep
3	EPA-350.1	09/29/21 00:26	09/29/21 14:57	JMH2	SC-1	1.038	B120908	No Prep

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Ione, CA 95640

Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2130009-03 | **Client Sample Name:** MW-2, 9/21/2021 11:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese	**6.5**	**mg/L**	**0.0010**	**0.000040**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	09/24/21 12:32	09/24/21 16:41	JRG	WinLabICP	1	B120627	EPA 200.7 Dissolved
2	EPA-200.8	09/23/21 14:02	09/24/21 11:07	KHS	PE-EL2	1	B120569	EPA 200.8 Dissolved

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P.O. Box 411
Ione, CA 95640

Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID: 2130009-04 | **Client Sample Name:** MW-2A, 9/21/2021 12:05:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	0.15	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	300	mg/L	20	10	EPA-160.1	ND	A10	2
Ammonia as N	3.8	mg/L	0.20	0.067	EPA-350.1	0.080		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	09/22/21 13:00	09/22/21 18:21	KB1	IC1	1	B120435	No Prep
2	EPA-160.1	09/24/21 11:30	09/24/21 11:30	CAD	MANUAL	2	B120607	No Prep
3	EPA-350.1	09/29/21 00:26	09/29/21 14:58	JMH2	SC-1	1.038	B120908	No Prep

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Ione, CA 95640

Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2130009-04 | **Client Sample Name:** MW-2A, 9/21/2021 12:05:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese	**3.2**	**mg/L**	**0.0010**	**0.000040**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	09/24/21 12:32	09/24/21 17:12	JRG	WinLabICP	1	B120627	EPA 200.7 Dissolved
2	EPA-200.8	09/23/21 14:04	09/24/21 11:09	KHS	PE-EL2	1	B120569	EPA 200.8 Dissolved

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID: 2130009-05 | **Client Sample Name:** MW-3, 9/21/2021 9:39:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	0.15	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	300	mg/L	20	10	EPA-160.1	ND	A10	2
Ammonia as N	1.8	mg/L	0.20	0.067	EPA-350.1	0.080		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	09/22/21 13:00	09/22/21 18:43	KB1	IC1	1	B120435	No Prep
2	EPA-160.1	09/24/21 11:30	09/24/21 11:30	CAD	MANUAL	2	B120607	No Prep
3	EPA-350.1	09/29/21 00:26	09/29/21 14:59	JMH2	SC-1	1.038	B120908	No Prep

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Ione, CA 95640

Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2130009-05 | **Client Sample Name:** MW-3, 9/21/2021 9:39:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese	**3.6**	**mg/L**	**0.0010**	**0.000040**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	09/24/21 12:32	09/24/21 17:14	JRG	WinLabICP	1	B120627	EPA 200.7 Dissolved
2	EPA-200.8	09/23/21 14:05	09/24/21 11:11	KHS	PE-EL2	1	B120569	EPA 200.8 Dissolved

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Ione, CA 95640

Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID: 2130009-06 | **Client Sample Name:** MW-3A, 9/21/2021 3:25:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	**0.087**	**mg/L**	**0.10**	**0.024**	**EPA-300.0**	ND	**J**	1
Total Dissolved Solids @ 180 C	**290**	**mg/L**	**20**	**10**	**EPA-160.1**	ND	**A10**	2
Ammonia as N	**4.5**	**mg/L**	**0.20**	**0.067**	**EPA-350.1**	0.080		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	09/22/21 13:00	09/22/21 19:47	KB1	IC1	1	B120435	No Prep
2	EPA-160.1	09/24/21 11:30	09/24/21 11:30	CAD	MANUAL	2	B120607	No Prep
3	EPA-350.1	09/29/21 00:26	09/29/21 14:59	JMH2	SC-1	1.034	B120908	No Prep

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2130009-06 | **Client Sample Name:** MW-3A, 9/21/2021 3:25:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese	**5.3**	**mg/L**	**0.0010**	**0.000040**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	09/24/21 12:32	09/24/21 17:16	JRG	WinLabICP	1	B120627	EPA 200.7 Dissolved
2	EPA-200.8	09/23/21 14:07	09/24/21 11:21	KHS	PE-EL2	1	B120569	EPA 200.8 Dissolved

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID: 2130009-07 | **Client Sample Name:** MW-4, 9/21/2021 10:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	**1.7**	**mg/L**	**0.10**	**0.024**	**EPA-300.0**	ND		1
Total Dissolved Solids @ 180 C	**290**	**mg/L**	**20**	**10**	**EPA-160.1**	ND	**A10**	2
Ammonia as N	**0.17**	**mg/L**	**0.20**	**0.067**	**EPA-350.1**	0.080	**J**	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	09/22/21 13:00	09/22/21 20:08	KB1	IC1	1	B120435	No Prep
2	EPA-160.1	09/24/21 11:30	09/24/21 11:30	CAD	MANUAL	2	B120607	No Prep
3	EPA-350.1	09/29/21 00:26	09/29/21 15:01	JMH2	SC-1	1.036	B120908	No Prep

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P.O. Box 411
Ione, CA 95640

Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2130009-07 | **Client Sample Name:** MW-4, 9/21/2021 10:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese	**0.87**	**mg/L**	**0.0010**	**0.000040**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	09/24/21 12:32	09/24/21 17:18	JRG	WinLabICP	1	B120627	EPA 200.7 Dissolved
2	EPA-200.8	09/23/21 14:09	09/24/21 11:22	KHS	PE-EL2	1	B120569	EPA 200.8 Dissolved

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID: 2130009-08 | **Client Sample Name:** MW-4A, 9/21/2021 10:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	**0.36**	**mg/L**	**0.10**	**0.024**	**EPA-300.0**	ND		1
Total Dissolved Solids @ 180 C	**250**	**mg/L**	**20**	**10**	**EPA-160.1**	ND	**A10**	2
Ammonia as N	**0.15**	**mg/L**	**0.20**	**0.067**	**EPA-350.1**	0.080	**J**	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	09/22/21 22:00	09/22/21 23:33	ANK	IC8	1	B120474	No Prep
2	EPA-160.1	09/24/21 11:30	09/24/21 11:30	CAD	MANUAL	2	B120607	No Prep
3	EPA-350.1	09/29/21 00:26	09/29/21 15:01	JMH2	SC-1	1.033	B120908	No Prep

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2130009-08 | **Client Sample Name:** MW-4A, 9/21/2021 10:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese	**0.014**	**mg/L**	**0.0010**	**0.000040**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	09/24/21 12:32	09/24/21 17:20	JRG	WinLabICP	1	B120627	EPA 200.7 Dissolved
2	EPA-200.8	09/23/21 14:11	09/24/21 11:59	KHS	PE-EL2	1	B120569	EPA 200.8 Dissolved

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID: 2130009-09 | **Client Sample Name:** MW-5A, 9/21/2021 1:10:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	0.66	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	210	mg/L	20	10	EPA-160.1	ND	A10	2
Ammonia as N	0.16	mg/L	0.20	0.067	EPA-350.1	0.080	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	09/22/21 22:00	09/23/21 00:55	ANK	IC8	1	B120474	No Prep
2	EPA-160.1	09/24/21 11:30	09/24/21 11:30	CAD	MANUAL	2	B120607	No Prep
3	EPA-350.1	09/29/21 00:26	09/29/21 15:04	JMH2	SC-1	1.034	B120908	No Prep

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2130009-09 | **Client Sample Name:** MW-5A, 9/21/2021 1:10:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese	**0.070**	**mg/L**	**0.0010**	**0.000040**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	09/24/21 12:32	09/24/21 17:23	JRG	WinLabICP	1	B120627	EPA 200.7 Dissolved
2	EPA-200.8	09/23/21 14:13	09/24/21 11:25	KHS	PE-EL2	1	B120569	EPA 200.8 Dissolved

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID: 2130009-10 | **Client Sample Name:** P-3, 9/21/2021 1:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	**300**	**mg/L**	**20**	**10**	**EPA-160.1**	ND	**A10**	2
Ammonia as N	**0.92**	**mg/L**	**0.20**	**0.067**	**EPA-350.1**	0.080		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	09/22/21 22:00	09/23/21 01:15	ANK	IC8	1	B120474	No Prep
2	EPA-160.1	09/24/21 11:30	09/24/21 11:30	CAD	MANUAL	2	B120607	No Prep
3	EPA-350.1	09/29/21 00:26	09/29/21 15:05	JMH2	SC-1	1.036	B120908	No Prep

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2130009-10 | **Client Sample Name:** P-3, 9/21/2021 1:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese	**2.9**	**mg/L**	**0.0010**	**0.000040**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	09/24/21 12:32	09/24/21 17:25	JRG	WinLabICP	1	B120627	EPA 200.7 Dissolved
2	EPA-200.8	09/23/21 14:15	09/24/21 11:27	KHS	PE-EL2	1	B120569	EPA 200.8 Dissolved

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID: 2130009-11 | **Client Sample Name:** P-5B, 9/21/2021 12:55:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	0.72	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	220	mg/L	20	10	EPA-160.1	ND	A10	2
Ammonia as N	0.095	mg/L	0.20	0.067	EPA-350.1	ND	J	3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	09/22/21 22:00	09/23/21 01:36	ANK	IC8	1	B120474	No Prep
2	EPA-160.1	09/24/21 11:30	09/24/21 11:30	CAD	MANUAL	2	B120608	No Prep
3	EPA-350.1	09/29/21 15:15	10/05/21 11:04	JMH2	SC-1	1.040	B120986	No Prep

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2130009-11 | **Client Sample Name:** P-5B, 9/21/2021 12:55:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese	**0.065**	**mg/L**	**0.0010**	**0.000040**	**EPA-200.8**	0.000064		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	09/24/21 12:35	09/24/21 21:00	JRG	PE-OP4	1	B120628	EPA 200.7 Dissolved
2	EPA-200.8	09/23/21 23:50	09/24/21 13:14	KHS	PE-EL4	1	B120570	EPA 200.8 Dissolved

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B120435						
Nitrate as N	B120435-BLK1	ND	mg/L	0.10	0.024	
QC Batch ID: B120474						
Nitrate as N	B120474-BLK1	ND	mg/L	0.10	0.024	
QC Batch ID: B120607						
Total Dissolved Solids @ 180 C	B120607-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B120608						
Total Dissolved Solids @ 180 C	B120608-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B120908						
Ammonia as N	**B120908-BLK1**	**0.077000**	**mg/L**	**0.20**	**0.067**	**J**
QC Batch ID: B120986						
Ammonia as N	B120986-BLK1	ND	mg/L	0.20	0.067	

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B120435										
Nitrate as N	B120435-BS1	LCS	5.2940	5.0000	mg/L	106		90 - 110		
QC Batch ID: B120474										
Nitrate as N	B120474-BS1	LCS	4.7030	5.0000	mg/L	94.1		90 - 110		
QC Batch ID: B120607										
Total Dissolved Solids @ 180 C	B120607-BS1	LCS	590.00	586.00	mg/L	101		90 - 110		
QC Batch ID: B120608										
Total Dissolved Solids @ 180 C	B120608-BS1	LCS	595.00	586.00	mg/L	102		90 - 110		
QC Batch ID: B120908										
Ammonia as N	B120908-BS1	LCS	2.0170	2.0000	mg/L	101		90 - 110		
QC Batch ID: B120986										
Ammonia as N	B120986-BS1	LCS	1.9432	2.0000	mg/L	97.2		90 - 110		

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B120435	Used client sample: Y - Description: MW-1, 09/21/2021 14:15										
Nitrate as N	DUP	2130009-01	0.44200	0.43800		mg/L	0.9		10		
	MS	2130009-01	0.44200	6.4414	5.0505	mg/L		119		80 - 120	
	MSD	2130009-01	0.44200	6.4374	5.0505	mg/L	0.1	119	10	80 - 120	
QC Batch ID: B120474	Used client sample: Y - Description: MW-4A, 09/21/2021 10:35										
Nitrate as N	DUP	2130009-08	0.35900	0.35600		mg/L	0.8		10		
	MS	2130009-08	0.35900	5.6040	5.0505	mg/L		104		80 - 120	
	MSD	2130009-08	0.35900	5.6515	5.0505	mg/L	0.8	105	10	80 - 120	
QC Batch ID: B120607	Used client sample: Y - Description: MW-1A, 09/21/2021 14:55										
Total Dissolved Solids @ 180 C	DUP	2130009-02	316.00	322.00		mg/L	1.9		10		
QC Batch ID: B120608	Used client sample: N										
Total Dissolved Solids @ 180 C	DUP	2130186-01	1230.0	1200.0		mg/L	2.5		10		
QC Batch ID: B120908	Used client sample: Y - Description: MW-1, 09/21/2021 14:15										
Ammonia as N	DUP	2130009-01	0.13570	0.13239		mg/L	2.5		10		J
	MS	2130009-01	0.13570	2.5694	2.2945	mg/L		106		90 - 110	
	MSD	2130009-01	0.13570	2.5389	2.2945	mg/L	1.2	105	10	90 - 110	
QC Batch ID: B120986	Used client sample: N										
Ammonia as N	DUP	**2129981-03**	**0.13503**	**0.11259**		**mg/L**	**18.1**		**10**		**J,A02**
	MS	**2129981-03**	**0.13503**	**2.3400**	**2.3166**	**mg/L**		**95.2**		**90 - 110**	
	MSD	**2129981-03**	**0.13503**	**2.3100**	**2.3166**	**mg/L**	**1.3**	**93.9**	**10**	**90 - 110**	

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Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B120569						
Dissolved Manganese	B120569-BLK1	ND	mg/L	0.0010	0.000040	
QC Batch ID: B120570						
Dissolved Manganese	**B120570-BLK1**	**0.000064000**	**mg/L**	**0.0010**	**0.000040**	**J**
QC Batch ID: B120627						
Dissolved Iron	B120627-BLK1	ND	mg/L	0.050	0.030	
QC Batch ID: B120628						
Dissolved Iron	B120628-BLK1	ND	mg/L	0.050	0.030	

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B120569										
Dissolved Manganese	B120569-BS1	LCS	0.10540	0.10000	mg/L	105		85 - 115		
QC Batch ID: B120570										
Dissolved Manganese	B120570-BS1	LCS	0.097689	0.10000	mg/L	97.7		85 - 115		
QC Batch ID: B120627										
Dissolved Iron	B120627-BS1	LCS	1.0214	1.0000	mg/L	102		85 - 115		
QC Batch ID: B120628										
Dissolved Iron	B120628-BS1	LCS	1.0471	1.0000	mg/L	105		85 - 115		

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Reported: 10/05/2021 16:18
Project: City of Ione Groundwater Monitoring WWTP
Project Number: City of Ione Groundwater Monitoring WWTP
Project Manager: Christopher Strong

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B120569	Used client sample: Y - Description: MW-1, 09/21/2021 14:15										
Dissolved Manganese	DUP	2130009-01	0.0031540	0.0031980		mg/L	1.4		20		
	MS	2130009-01	0.0031540	0.10247	0.10204	mg/L		97.3		70 - 130	
	MSD	2130009-01	0.0031540	0.10535	0.10204	mg/L	2.8	100	20	70 - 130	
QC Batch ID: B120570	Used client sample: N										
Dissolved Manganese	DUP	2130010-01	0.0084950	0.0086040		mg/L	1.3		20		
	MS	2130010-01	0.0084950	0.10321	0.10204	mg/L		92.8		70 - 130	
	MSD	2130010-01	0.0084950	0.10404	0.10204	mg/L	0.8	93.6	20	70 - 130	
QC Batch ID: B120627	Used client sample: Y - Description: MW-1, 09/21/2021 14:15										
Dissolved Iron	DUP	2130009-01	ND	ND		mg/L			20		
	MS	2130009-01	ND	0.99785	1.0204	mg/L		97.8		85 - 115	
	MSD	2130009-01	ND	0.98453	1.0204	mg/L	1.3	96.5	20	85 - 115	
QC Batch ID: B120628	Used client sample: N										
Dissolved Iron	DUP	2130010-01	ND	ND		mg/L			20		
	MS	2130010-01	ND	1.0214	1.0204	mg/L		100		85 - 115	
	MSD	2130010-01	ND	1.0134	1.0204	mg/L	0.8	99.3	20	85 - 115	

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Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A02	The difference between duplicate readings is less than the quantitation limit.
A10	Detection and quantitation limits were raised due to matrix interference.

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 09/29/2021

Christopher Strong

EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Client Project:	City of Ione GW Monitoring WWTP
BCL Project:	Bacteriological
BCL Work Order:	2130007
Invoice ID:	B430144

Enclosed are the results of analyses for samples received by the laboratory on 9/22/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Ragen Schallock
Client Service Rep

Stuart Buttram
Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Environmental Testing Laboratory Since 1949

BC LABORATORIES

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(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

3.2 3.1

Chain of Custody

* Required Fields 21-30009 (BAC7# 21-30007) TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #: (209) 487-4802 FAX * #:
EcoUrban Associates	Christopher Strong	E-mail: cstrong@ecourbandesigns.com

Address *	City *	State *	Zip *
531 W. Marlette St.	Ione	CA	95640

Project Information: City of Ione GW Monitoring WWTP
PO #:
BCL Quote #:

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☑ EDD ☐ Mail Only

Regulatory Compliance: Electronic Data Transfer. Y ☐ N ☐ System No. *

Sampler Name Printed / Signature

QC Request: ☐ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 3 Day** ☐ 1 Day**

Matrix Types: RSW = Raw Surface Water, CFW = Chlorinated Finished Water, CWW = Chlorinated Waste Water, BW = Bottled Water, RGW = Raw Ground Water, FW = Finished Water, WW = Waste Water, SW = Storm Water, DW = Drinking Water, SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	TDS, Nitrate-N	NH3	Dissolved Iron & Manganese	Total Coliform (555)					
-1		9/20/21	14:15	MW-1	RGW		✓	✓	✓	✓					
-2			14:55	MW-1A	RGW		✓	✓	✓	✓					
-3			11:15	MW-2	RGW		✓	✓	✓	✓					
-4			12:35	MW-2A	RGW		✓	✓	✓	✓					
-5			9:39	MW-3	RGW		✓	✓	✓	✓					
-6			15:25	MW-3A	RGW		✓	✓	✓	✓					
-7			10:05	MW-4	RGW		✓	✓	✓	✓					
-8			10:35	MW-4A	RGW		✓	✓	✓	✓					
-9			13:10	MW-5A	RGW		✓	✓	✓	✓					
-10			[illegible]	P-3 13:45 sampled ok	RGW		✓	✓	✓	✓					
-11			12:55	P-5B	RGW		✓	✓	✓	✓					

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
[signature]	EcoUrban	9/21/21	15:40	[signature] BENSON	BC LABS
Relinquished by: (Signature and Printed Name) [signature] BENSON	Company BC LABS	Date 9/21/21	Time 1830	Received by (Signature and Print Name) [signature]	Company BC 9-22-21 9:34
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Cred PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

CHK BY [illegible] DISTRIBUTION WHITE ☐ SUB OUT ☐

SHORT HOLDING TIME: Cr^{+6} NO_2 NO_3 OP SS DO Cl_2 BOD MBAS COT

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Chain of Custody and Cooler Receipt Form for 2130007 Page 2 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 3

Submission #: 21-30009 (Back 21-30007)

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ GSO / GLS ☑ Hand Delivery ☐
BC Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☑ NO ☐
GW / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☐ YES ☑ NO

Emissivity: 0.95 Container: PE Thermometer ID: 274 Date/Time 9-22-21

Temperature: (A) 0.6 °C / (C) 0.5 °C Analyst Ini SMH 9:34

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES			A		A	A	A	A		
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL	(A)	(A)	(A)	(A)	(A)	(A)	(A)			
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.3/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

CHK BY (✓) DISTRIBUTION WK SUB-OUT ☐

Comments:
Sample Numbering Completed By: JAP Date/Time: 9-22-21 1350
A = Actual / C = Corrected

Rev 22 04/13/21
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BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 3

Submission #: 21-20009

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ GSO / GLS ☑ Hand Delivery ☐
BC Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
(W) / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 224
Temperature: (A) 0.6 °C / (C) 0.5 °C

Date/Time 9.22.21
Analyst Init SMH 9:34

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	A	A		A					A	A
4oz / 8oz / (16oz) PE UNPRES Metals	B	B	B	B	B	B	B	B	B	B
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS	C	C	C	C	C	C	C	C	C	C
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL								(A)	(A)	(A)
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: JAP Date/Time: 9-22-21 1350
A = Actual / C = Corrected

Rev 22 04/13/21
[S:\MP\Bec\WordPerfect\LAB_DOCS\FORMS\SRMREC.rev 21]

Chain of Custody and Cooler Receipt Form for 2130007 Page 4 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 3

Submission #: 21-30009 JAP 9-22

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ GSO / GLS ☑ Hand Delivery ☐
BC Lab Field Service ☐ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 224 Date/Time 9-22-21

Temperature: (A) 0.6 °C / (C) 0.5 °C Analyst Init SMH 9:34

SAMPLE CONTAINERS	SAMPLE NUMBERS 1/11	2	3	4	5	6	7	8	9	10
QT PE UNPRES	A									
4oz / 8oz / 16oz PE UNPRES Metals	B									
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS	C									
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL	(A)									
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: JAP Date/Time: 9-22-21 1350
A = Actual / C = Corrected

Rev 22 04/13/21
(S:\WP Docs\Word Perfect\JB_DOCS\FORMS\BAVREC rev 20)

EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 09/29/2021 10:16 Project: Bacteriological Project Number: City of Ione GW Monitoring WWTP Project Manager: Christopher Strong

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2130007-01	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 14:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-1	**Lab Matrix:**	Water
	Sampled By:	Christopher Strong	**Sample Type:**	Water
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	3.1
2130007-02	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 14:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-1A	**Lab Matrix:**	Water
	Sampled By:	Christopher Strong	**Sample Type:**	Water
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	
2130007-03	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 11:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2	**Lab Matrix:**	Water
	Sampled By:	Christopher Strong	**Sample Type:**	Water
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 09/29/2021 10:16
Project: Bacteriological
Project Number: City of Ione GW Monitoring WWTP
Project Manager: Christopher Strong

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2130007-04	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 12:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2A	**Lab Matrix:**	Water
	Sampled By:	Christopher Strong	**Sample Type:**	Water
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	
2130007-05	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 09:39
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3	**Lab Matrix:**	Water
	Sampled By:	Christopher Strong	**Sample Type:**	Water
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	
2130007-06	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 15:25
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3A	**Lab Matrix:**	Water
	Sampled By:	Christopher Strong	**Sample Type:**	Water
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 09/29/2021 10:16 Project: Bacteriological Project Number: City of Ione GW Monitoring WWTP Project Manager: Christopher Strong

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2130007-07	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 10:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-4	**Lab Matrix:**	Water
	Sampled By:	Christopher Strong	**Sample Type:**	Water
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	
2130007-08	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 10:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-4A	**Lab Matrix:**	Water
	Sampled By:	Christopher Strong	**Sample Type:**	Water
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	
2130007-09	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 13:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-5A	**Lab Matrix:**	Water
	Sampled By:	Christopher Strong	**Sample Type:**	Water
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 09/29/2021 10:16
Project: Bacteriological
Project Number: City of Ione GW Monitoring WWTP
Project Manager: Christopher Strong

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2130007-10	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 13:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	P-3	**Lab Matrix:**	Water
	Sampled By:	Christopher Strong	**Sample Type:**	Water
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	
2130007-11	**COC Number:**	---	**Receive Date:**	09/22/2021 09:34
	Project Number:	---	**Sampling Date:**	09/21/2021 12:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	P-5B	**Lab Matrix:**	Water
	Sampled By:	Christopher Strong	**Sample Type:**	Water
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 09/29/2021 10:16
Project: Bacteriological
Project Number: City of Ione GW Monitoring WWTP
Project Manager: Christopher Strong

2130007-01

Water Analysis (Bacteriological)

COC Number:	---	**District ID:**	
Project Number:	---	**System Number:**	
Sampling Location:	---	**Station Number:**	
Sampling Point:	MW-1	**Sample Site:**	
Sampled By:	Christopher Strong	**Residual Chlorine, ppm:**	
Receive Date:	09/22/2021 09:34	**Temperature, C:**	3.1
Sampling Date:	09/21/2021 14:15		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	12	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Confirmed Test	12	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Density	540	MPN/100ml	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 09/29/2021 10:16 Project: Bacteriological Project Number: City of Ione GW Monitoring WWTP Project Manager: Christopher Strong

2130007-02

Water Analysis (Bacteriological)

COC Number:	---	**District ID:**	
Project Number:	---	**System Number:**	
Sampling Location:	---	**Station Number:**	
Sampling Point:	MW-1A	**Sample Site:**	
Sampled By:	Christopher Strong	**Residual Chlorine, ppm:**	
Receive Date:	09/22/2021 09:34	**Temperature, C:**	
Sampling Date:	09/21/2021 14:55		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	10	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Confirmed Test	10	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Density	240	MPN/100ml	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 09/29/2021 10:16 Project: Bacteriological Project Number: City of Ione GW Monitoring WWTP Project Manager: Christopher Strong

2130007-03

Water Analysis (Bacteriological)

COC Number:	---	**District ID:**	
Project Number:	---	**System Number:**	
Sampling Location:	---	**Station Number:**	
Sampling Point:	MW-2	**Sample Site:**	
Sampled By:	Christopher Strong	**Residual Chlorine, ppm:**	
Receive Date:	09/22/2021 09:34	**Temperature, C:**	
Sampling Date:	09/21/2021 11:15		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	12	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Confirmed Test	12	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Density	280	MPN/100ml	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 09/29/2021 10:16
Project: Bacteriological
Project Number: City of Ione GW Monitoring WWTP
Project Manager: Christopher Strong

2130007-04

Water Analysis (Bacteriological)

COC Number:	---	**District ID:**	
Project Number:	---	**System Number:**	
Sampling Location:	---	**Station Number:**	
Sampling Point:	MW-2A	**Sample Site:**	
Sampled By:	Christopher Strong	**Residual Chlorine, ppm:**	
Receive Date:	09/22/2021 09:34	**Temperature, C:**	
Sampling Date:	09/21/2021 12:05		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	13	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Confirmed Test	13	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Density	920	MPN/100ml	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 09/29/2021 10:16 Project: Bacteriological Project Number: City of Ione GW Monitoring WWTP Project Manager: Christopher Strong

2130007-05

Water Analysis (Bacteriological)

COC Number:	---	**District ID:**	
Project Number:	---	**System Number:**	
Sampling Location:	---	**Station Number:**	
Sampling Point:	MW-3	**Sample Site:**	
Sampled By:	Christopher Strong	**Residual Chlorine, ppm:**	
Receive Date:	09/22/2021 09:34	**Temperature, C:**	
Sampling Date:	09/21/2021 09:39		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	1	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Confirmed Test	1	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Density	2.0	MPN/100ml	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 09/29/2021 10:16 Project: Bacteriological Project Number: City of Ione GW Monitoring WWTP Project Manager: Christopher Strong

2130007-06

Water Analysis (Bacteriological)

COC Number:	---	**District ID:**	
Project Number:	---	**System Number:**	
Sampling Location:	---	**Station Number:**	
Sampling Point:	MW-3A	**Sample Site:**	
Sampled By:	Christopher Strong	**Residual Chlorine, ppm:**	
Receive Date:	09/22/2021 09:34	**Temperature, C:**	
Sampling Date:	09/21/2021 15:25		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	1	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Confirmed Test	1	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Density	2.0	MPN/100ml	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 09/29/2021 10:16 Project: Bacteriological Project Number: City of Ione GW Monitoring WWTP Project Manager: Christopher Strong

2130007-07

Water Analysis (Bacteriological)

COC Number:	---	**District ID:**	
Project Number:	---	**System Number:**	
Sampling Location:	---	**Station Number:**	
Sampling Point:	MW-4	**Sample Site:**	
Sampled By:	Christopher Strong	**Residual Chlorine, ppm:**	
Receive Date:	09/22/2021 09:34	**Temperature, C:**	
Sampling Date:	09/21/2021 10:05		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	8	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Confirmed Test	8	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Density	79	MPN/100ml	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 09/29/2021 10:16 Project: Bacteriological Project Number: City of Ione GW Monitoring WWTP Project Manager: Christopher Strong

2130007-08

Water Analysis (Bacteriological)

COC Number:	---	**District ID:**	
Project Number:	---	**System Number:**	
Sampling Location:	---	**Station Number:**	
Sampling Point:	MW-4A	**Sample Site:**	
Sampled By:	Christopher Strong	**Residual Chlorine, ppm:**	
Receive Date:	09/22/2021 09:34	**Temperature, C:**	
Sampling Date:	09/21/2021 10:35		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	1	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Confirmed Test	1	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Density	2.0	MPN/100ml	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 09/29/2021 10:16 Project: Bacteriological Project Number: City of Ione GW Monitoring WWTP Project Manager: Christopher Strong

2130007-09

Water Analysis (Bacteriological)

COC Number:	---	**District ID:**	
Project Number:	---	**System Number:**	
Sampling Location:	---	**Station Number:**	
Sampling Point:	MW-5A	**Sample Site:**	
Sampled By:	Christopher Strong	**Residual Chlorine, ppm:**	
Receive Date:	09/22/2021 09:34	**Temperature, C:**	
Sampling Date:	09/21/2021 13:10		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	1	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Confirmed Test	1	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Density	2.0	MPN/100ml	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 09/29/2021 10:16 Project: Bacteriological Project Number: City of Ione GW Monitoring WWTP Project Manager: Christopher Strong

2130007-10

Water Analysis (Bacteriological)

COC Number:	---	**District ID:**	
Project Number:	---	**System Number:**	
Sampling Location:	---	**Station Number:**	
Sampling Point:	P-3	**Sample Site:**	
Sampled By:	Christopher Strong	**Residual Chlorine, ppm:**	
Receive Date:	09/22/2021 09:34	**Temperature, C:**	
Sampling Date:	09/21/2021 13:45		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	1	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Confirmed Test	1	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Density	2.0	MPN/100ml	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 09/29/2021 10:16 Project: Bacteriological Project Number: City of Ione GW Monitoring WWTP Project Manager: Christopher Strong

2130007-11

Water Analysis (Bacteriological)

COC Number:	---	**District ID:**	
Project Number:	---	**System Number:**	
Sampling Location:	---	**Station Number:**	
Sampling Point:	P-5B	**Sample Site:**	
Sampled By:	Christopher Strong	**Residual Chlorine, ppm:**	
Receive Date:	09/22/2021 09:34	**Temperature, C:**	
Sampling Date:	09/21/2021 12:55		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	14	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Confirmed Test	14	Positive Tubes	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	
Total Coliform, Density	1600	MPN/100ml	SM-9221B	FBV	1	09/22/2021 10:30	09/24/2021	

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EcoUrban Associates P.O. Box 411 Ione, CA 95640	**Reported:** 09/29/2021 10:16 Project: Bacteriological Project Number: City of Ione GW Monitoring WWTP Project Manager: Christopher Strong

Notes And Definitions

MPN Most Probable Number

#3

Amador County Transportation Commission

117 Valley View Way
Sutter Creek, CA 95685
209.267.2282
fax: 209.267.1930

DATE: December 30, 2021

TO: Anne Kel-Artinian, Mayor, City of Amador City
Michael Rock, City Manager, City of Ione
Yvonne Kimball, City Manager, City of Jackson
Rex Osborn, City Manager, City of Plymouth
Amy Gedney, City Manager, City of Sutter Creek
Chuck Iley, County Administrative Office, Amador County

FROM: John Gedney, Executive Director

SUBJECT: FY 20/21 Regional Transportation Mitigation Fee Annual Report

Please find the attached Annual Report for the Amador County Regional Traffic Mitigation Fee Program (RTMF) for Fiscal Year 20/21. Along with the Report, the attachments include:

- FY 20/21 revenue by jurisdiction
- Program expenditures by project
- Currently-adopted fee schedule
- Eligible Project Listing

Also included in the attachments is a draft resolution adopting the Annual Report provided in Word version for editing purposes.

All cities and the County have appointed representatives on the RTMF Oversight Committee convened annually to consider program obligations, expenditures, and policy.

cc:
Joyce Davidson, City Clerk, City of Amador City
Susan Bragstad, Vice Mayor, City of Amador City
Janice Traverso, City Clerk, City of Ione
John Georgette, City Clerk, City of Jackson
Susan Peters, Planner, City of Jackson
Karen Darrow, City Clerk, City of Sutter Creek
Jennifer Burns, Clerk of the Board, Amador County Board of Supervisors

JG- Attachments

Amador County Regional Traffic Mitigation Fee Program
Annual Status Report for Fiscal Year 2020/21

The purpose of this Annual Report is to document Regional Traffic Mitigation Fee (RTMF) program history, describe project obligations, identify approved expenditures, account for new revenues, and describe new program modifications.

RTMF Program History

In 2006, the County of Amador and all five (5) incorporated cities adopted a Memorandum of Understanding (MOU) with the Amador County Transportation Commission (ACTC) to establish the RTMF program to collect fees on new building construction within Amador County for the purpose of mitigating traffic impacts on the regional roadway system. By statute, these fees can only be spent on a specified list of projects subject to a Nexus Plan that describes the relationship between the 'project' and its 'impact'.

Pursuant to the original 2006 RTMF program agreement, fees collected by the cities and the County were set at a rate of $283.20 per trip end. In Fiscal Year (FY) 07/08, the cities and County increased the fee (due to inflation) to $304.00 per trip end. In FY 14/15, the fee schedule was modified again, increasing the Residential trip rate to $388/trip end and reducing specific high-volume Commercial trip rates to $167/trip end. The updated MOU, Fee Schedule (Attachment D), and Capital Improvement Program (Attachment C) was approved in FY 15/16 by the County and all five (5) member cities.

Since its inception, the RTMF program has helped to fund construction of seven (7) regionally significant transportation projects, shown below:

1. SR 88/104 (Martell – County)
2. Mission Boulevard (City of Jackson)
3. Court Street/SR 88 (City of Jackson)
4. SR 49/Main Street (City of Jackson)
5. Sutter-Ione Road (City of Sutter Creek)
6. SR 104/Prospect Drive-Bowers Drive (Sutter Creek)
7. SR 49/Main Street Roundabout (City of Plymouth)

In addition, the Program has obligated contributions toward the following projects currently in the planning or project development phase:

8. Sutter Street Extension/SR 49-88 (City of Jackson)
9. Western Ione Roadway Improvement Strategy (WIRIS) – (City of Ione)
10. Argonaut Lane/SR 49-88 (Martell - County)
11. Wicklow Way Extension

The RTMF Oversight Committee (OC) is comprised of one (1) appointed representative from each City and the County. The ACTC also appoints a representative. The OC meets annually to review the prior FY Annual Report, and provide recommendations for any funding, project, or other program adjustments to be considered for adoption by member agencies. In 2014/15, the cities and County agreed to modify the original MOU to state that the ACTC member would be a representative of the County.

As required by the MOU, each city and the County submits RTMF revenues to ACTC for deposit into an account solely designated for the RTMF program. In FY 19/20, the RTMF program received revenue from member jurisdictions (including interest earned) totaling **$1,149,923**. Those FY 19/20 contributions are shown below:

- Amador County = $ 132,851
- Ione = $ 368,998
- Jackson = $ 17,635
- Sutter Creek = $ 3,878
- Plymouth = $ 46,560
- Amador City = $ 0
- Buena Vista Casino = $ 572,395

On Attachment A these contributions from member jurisdictions bring fund revenue since program inception to total **$10,201,198**. Attachment B lists RTMF project revenue, approved expenditures, current obligations, and project status. (The projects shown as "Completed" were constructed with final expenditures recorded prior to FY 14/15.)

The following summary outlines the current status of RTMF-funded projects, current funding obligations, and actions of the RTMF OC through FY 20/21:

SR 104 - Prospect Drive/Bowers Drive Intersection/Realignment
The RTMF OC approved this project with the condition that the Gold Rush Ranch development project would repay the RTMF program for the entire cost of the project - $1,482,127.

Conditions of Approval for the Gold Rush Ranch development project (City of Sutter Creek) required Gold Rush Ranch to repay the RTMF program for the total cost incurred for the SR 104 - Prospect Drive/Bowers Drive Intersection/Realignment project and to complete additional lane(s) and signalization before the first Gold Rush building permit could be approved. These Conditions mitigated impacts generated by additional traffic from the Gold Rush development pursuant to the Gold Rush Ranch EIR and project approval documents.

The Gold Rush Ranch Tentative Map is now expired. ACTC is in discussions with Sutter Creek representatives to consider appropriate mechanisms for repayment of Prospect Drive/Bowers Drive project costs.

SR 49/Main Street, Plymouth
The RTMF OC recommended $200,000 to be programmed as a local match for the City of Plymouth's SR 49/Main Street intersection project. This expenditure has been recorded. The Project was constructed at a cost of $3.8 million.

Sutter Street Extension, Jackson
In past years, the RTMF OC obligated $1,300,000 to the Sutter Street Extension project. In 2006, the City of Jackson spent $387,586 acquiring a key piece of ROW leaving an obligated balance of $912,414. In FY 08/09, the OC authorized the City of Jackson to initiate project development efforts utilizing the $912,414 programmed balance.

Remediation efforts by the California Environmental Protection Agency (EPA) and Department of Toxic Substances Control to retrofit the dam at the existing terminus of Sutter Street temporarily suspended project development efforts. In 2015, EPA approved a Phase 2 Removal Action. With the subsequent confirmation of satisfactory restoration of residential properties, EPA cleared the way for development efforts on the Sutter Street Extension project to recommence in 2019.

During this time period, a total of $175,121 was expended leaving a balance of $737,294 available for future project development efforts. **In FY 20/21, the City of Jackson was reimbursed a total of $42,508.85 for additional project development work.**

Western Ione Roadway Improvement System (WIRIS)

The WIRIS project, identified as mitigation in the Ione General Plan and cited in prior development approvals, received an initial obligation of $618,975 from the RTMF program. In FY 09/10, at a cost of $124,185, Dokken Engineering completed a Project Study Report (PSR) selecting a preferred alignment and funding strategy. At that time, the PSR estimated the total cost for the WIRIS to be $113.4 million.

In FY 09/10, given reduced expectations for funding at the Federal, State, and Local level, the OC recommended continued funding for development of the WIRIS project at a cost not to exceed $177,000. After work to revise the PSR work was undertaken, that effort was suspended after incurring an additional $45,000 in expenditures.

During FY 14/15, the City again revised its planning effort to focus on a down-scaled WIRIS project - OC authorized $131,721 for continued work on the WIRIS project. This effort was to focus on improvements to existing roadway alignments for use as a bypass alternative. In FY 16/17, the City of Ione requested an additional $80,000 in RTMF funding to prepare the updated WIRIS Project Report. The WIRIS Project Report was completed in FY 17/18.

Project alternatives developed by the Report were presented to the Ione Planning Commission and may be presented to the Ione City County for its consideration of formal adoption of a preferred, alternative alignment. The OC agreed not to provide additional RTMF funding until the Ione City Council takes further action on the Project. **In FY 20/21, the City was provided its final reimbursement in the amount of $1,503.50 bringing the total expenditure on the Alternative Alignment Project Report to $211,226. The remaining obligated balance for project development work stands at $238,284.**

Argonaut Lane-SR 49/88 Intersection

In FY 07/08, citing Right of Way and Project Cost constraints, the OC recommended the project development process be suspended.

Wicklow Way Extension

In FY 15/16, the RTMF OC loaned up to 50% of funding from the Sutter Street Extension project to begin preliminary engineering for the Wicklow Way Extension project.

County staff estimated a cost of $284,500 to prepare a Project Study Report (conduct environmental assessments and initiate preliminary engineering and design) for the Wicklow Way Extension project.

The $284,500 loan was repaid to the Sutter Street Extension project utilizing subsequent, annual contributions to the RTMF program.

SR 88 / Pine Grove Improvements
During FY 17/18, the RTMF OC authorized programming $1,000,000 in RTMF funding to be commitment to Construction costs for the Pine Grove Improvements project. This funding amount had been previously approved through adoption of the 2015 Amador County Regional Transportation Plan as shown on the attached RTP Tier I / RTMF Project list.

Memorandum of Understanding (MOU) modification – ATTACHMENT F
At its May 3, 2018 meeting, the RTMF OC recommended that the RTMF MOU be modified to designate the agreement as "binding" among participant jurisdictions. This action was taken in response to:

1) The City of Ione agreement with a developer resulting in the deferral/loss of $504,000 to the RTMF program.
2) The lack of a formal mechanism to reimburse the RTMF program for costs related to the Bowers Dr/Prospect Dr project in the City of Sutter Creek.

The OC committee intention with the action is to 'bind' member jurisdictions to requirements, stated in the MOU under Exhibit D "Administrative Policies and Procedures", that any recommendations for deferrals, reimbursements, and/or adjustments to RTMF fees be brought before the RTMF OC for review and approval.

No new obligation funding actions or amendments to RTMF policies were approved during FY 20/21.

FY 20/21 RTMF Fund Balance
During FY 20/21, the RTMF program received additional revenue from its member jurisdictions (with interest) totaling $1,149,923 (Attachment A). Attachment B shows total remaining unprogrammed fund balance of after accounting for current funding obligations. As of June 30, 2021, **$2,198,767** is available for programming to eligible RTMF projects.

Attachment C lists current funding commitments toward projects on the RTMF Capital Improvement Program (CIP). (As approved through its adopted Nexus Study, the RTMF program maintains flexibility to fund any of the projects shown on the CIP Tier I listing.)

Attachment D shows the currently-adopted Fee Schedule. Also included with the packet are vicinity maps for RTMF-funded projects.

ATTACHMENT A
Amador County Regional Traffic Mitigation Fee Program
Revenue Report Fiscal Year 2020/21

	Amador County	Jackson Rancheria	Buena Vista	Ione	Jackson	Sutter Creek	Plymouth	Amador City	Interest	Totals
Beg Balance	966,381	0		234,921	234,604	427,000	0	0	24,786	1,887,692
02/03 Revenue	81,288	0		8,298	10,823	15,611	0	0	5,879	121,899
03/04 Revenue	293,707	112,614		34,186	58,426	15,084	0	0	17,868	531,885
04/05 Revenue	348,772	0		36,152	158,670	13,450	0	0	38,164	595,208
05/06 Revenue	445,646	0		165,675	77,653	185,473	0	0	67,515	941,962
06/07 Revenue	771,585	0		178,732	89,125	40,023	0	0	102,906	1,182,371
07/08 Revenue	317,795	0		4,410	85,726	5,660	0	0	131,323	544,914
08/09 Revenue	172,115	0		7,811	7,669	0	0	0	94,227	281,822
09/10 Revenue	90,072	0		0	9,413	0	0	0	43,684	143,169
10/11 Revenue	86,601	0		0	15,158	0	0	0	20,905	122,664
11/12 Revenue	48,906	0		3,059	0	0	0	0	12,842	64,807
12/13 Revenue	58,480	0		898	95,097	0	0	0	7,596	162,071
13/14 Revenue	82,050	0		233,707	0	0	0	0	1,610	317,367
14/15 Revenue	104,918	0		10,431	3,042	0	0	0	4,512	122,903
15/16 Revenue	115,085	0		72,692	0	33,440	0	9,120	6,036	236,373
16/17 Revenue	117,269	0		94,390	25,763	16,013	0	0	6,784	260,219
17/18 Revenue	141,586	0		304,527	37,397	14,937	62,080	0	2,496	563,024
18/19 Revenue	87,213	0		262,354	20,852	19,390	85,360	0	3,208	478,377
19/20 Revenue	147,144	0		151,170	134,152	0	58,200	0	1,882	492,548
20/21 Revenue	132,851	0	572,395	368,998	17,635	3,878	46,560	0	7,606	1,149,923
Total Revenue	**$4,609,465**	**$112,614**	**$572,395**	**$2,172,411**	**$1,081,205**	**$789,959**	**$252,200**	**$9,120**	**$601,829**	**$10,201,198**

ATTACHMENT B

Amador County Regional Traffic Mitigation Fee (RTMF) Program
Income by Customer / Expenditures-Obligations by Project Summary
As of June 30, 2021

Jurisdiction	Revenue		MOU Status
Amador City	$9,120		Approved
Amador County	$4,609,465		Approved
Ione	$2,172,411		Approved
Jackson	$1,081,205		Approved
Jackson Rancheria	$112,614		
Buena Vista	$572,395		
Plymouth	$252,200		Approved
Sutter Creek	$789,959		Approved
Interest	$601,829		
Total Revenue		**$10,201,198**	

Project	Expenditures		Project Status
Prospect Drive-SR 104	$1,482,127		Completed
Mission Boulevard	$847,851		Completed
Court Street (Jackson)	$67,293		Completed
SR 49-Main Street (Jackson)	$757,000		Completed
Sutter/Ione Road-SR 49 (Sutter Creek)	$1,200,000		Completed
SR 88-Ridge Road	$100,967		Completed
Sutter Street Extension	$630,291		Planning
Ione Bypass PSR I (WIRIS)	$124,187		Suspended
Ione Bypass PSR II (WIRIS)	$45,279		Suspended
Ione Bypass PSR III (WIRIS)	$211,226		Planning
SR 49-Main Street (Plymouth)	$200,000		Completed
Argonaut Lane-SR 49/88	$118,642		Suspended
Total Expenses		**$5,784,862**	

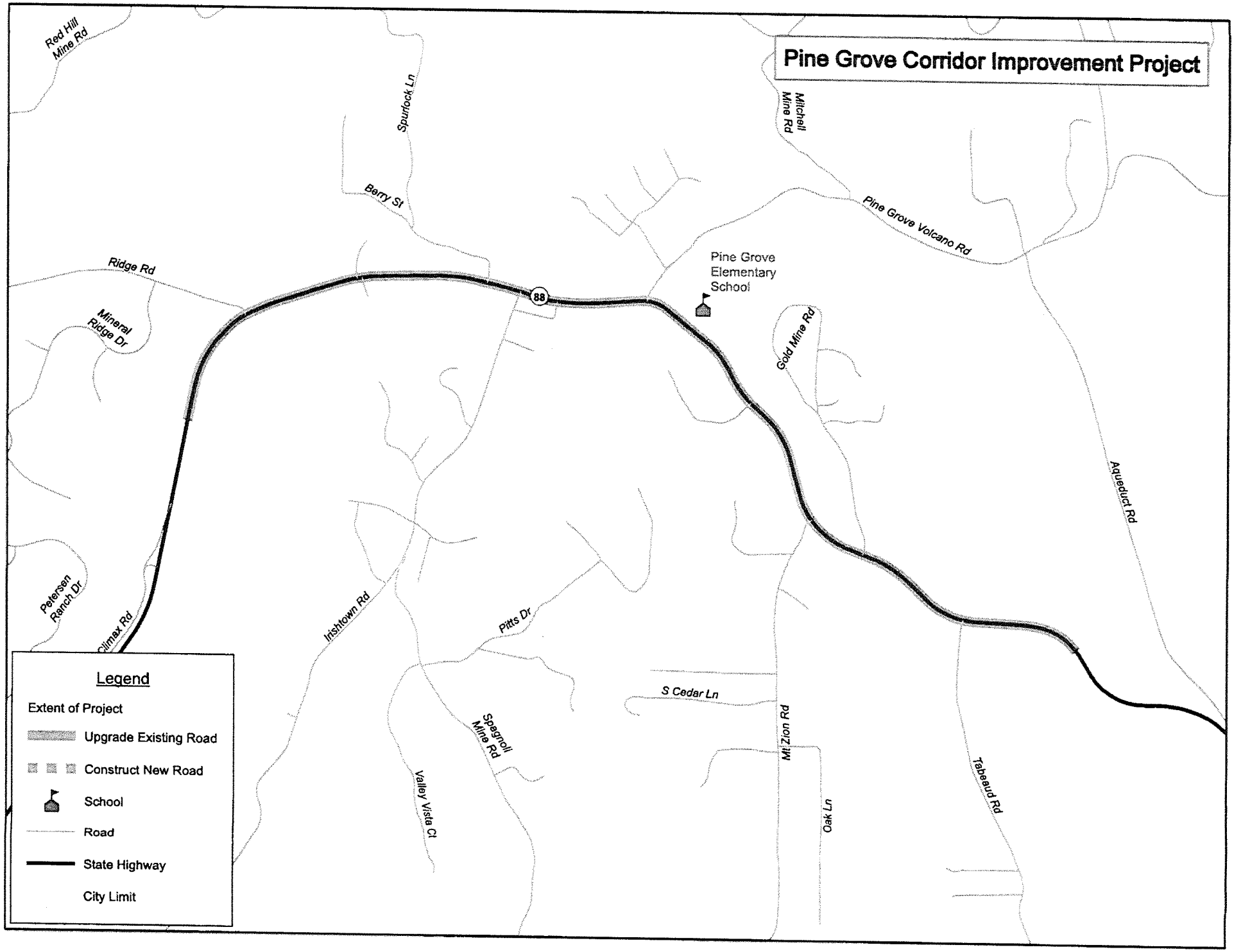
Obligations	Project			Project Status
	Sutter Street Extension	$410,285		Planning
	Sutter St. Ext. Loan Repayment	$284,500		Planning
	Ione WIRIS	$238,284		Planning
	Wicklow Way Extension	$284,500		Planning
	SR 88 / Pine Grove Improvements	$1,000,000		PS&E/ROW
	Total Obligations		**$2,217,569**	
	RTMF Fund Balance		$2,198,767	

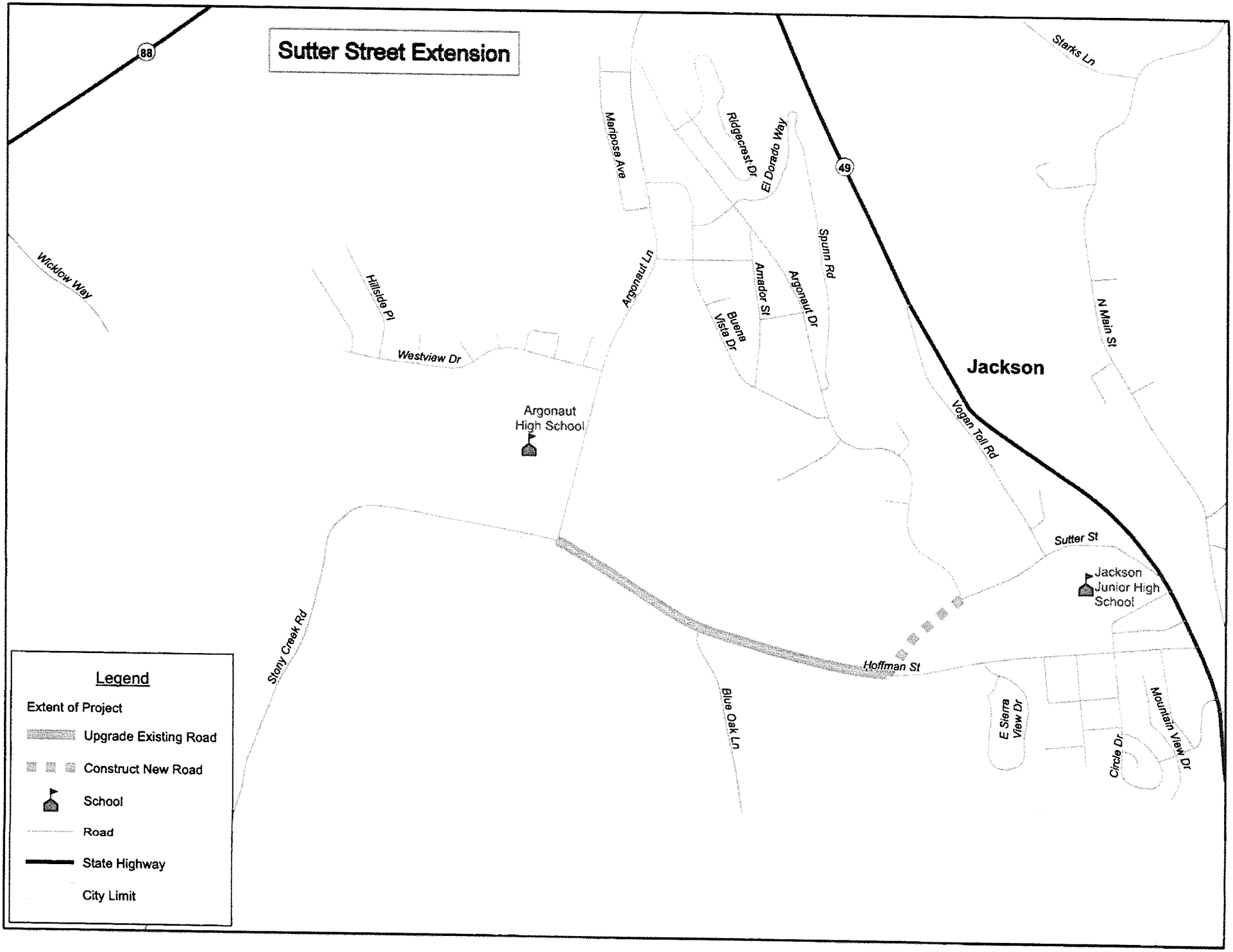
Attachment C

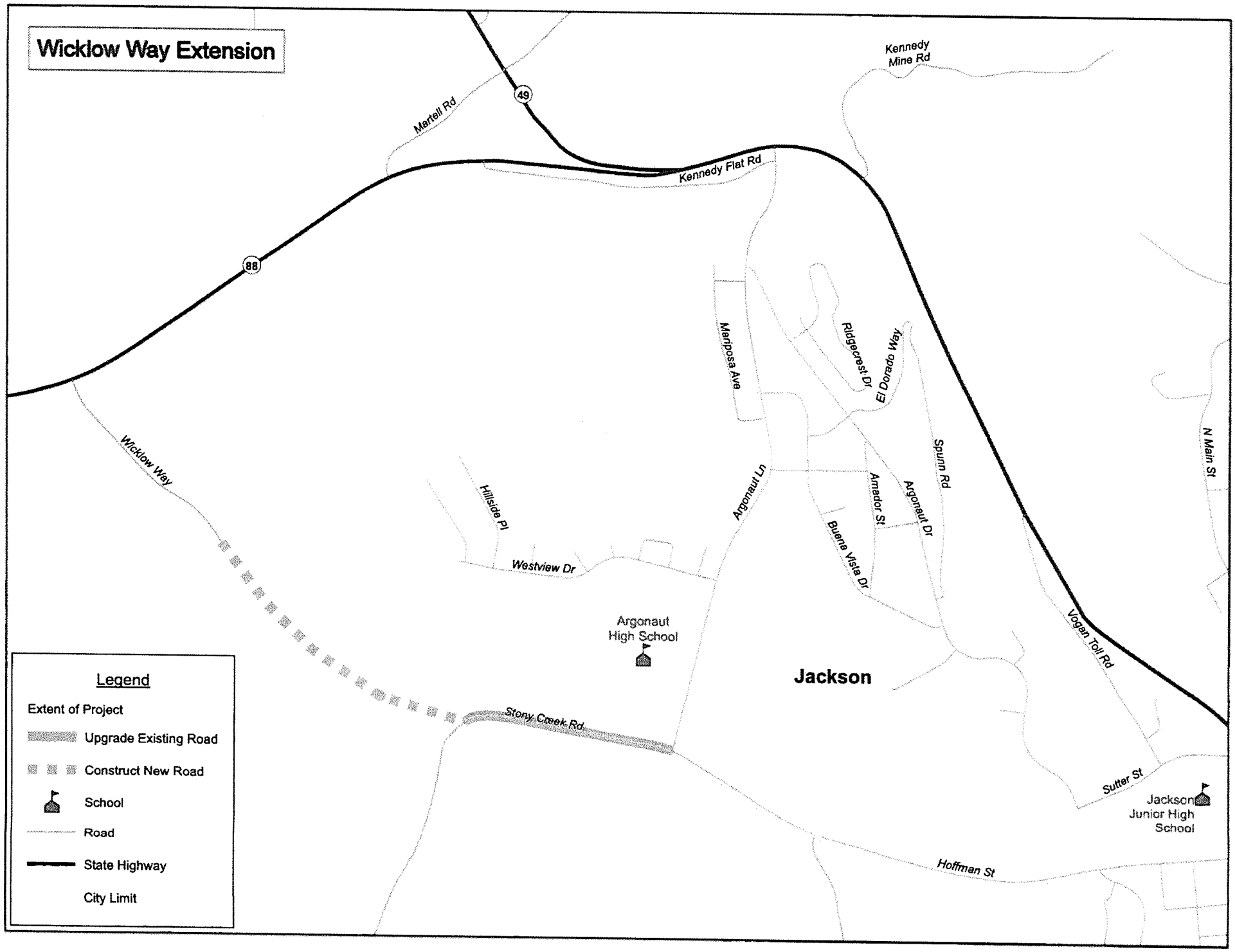
Amador County Regional Transportation Plan

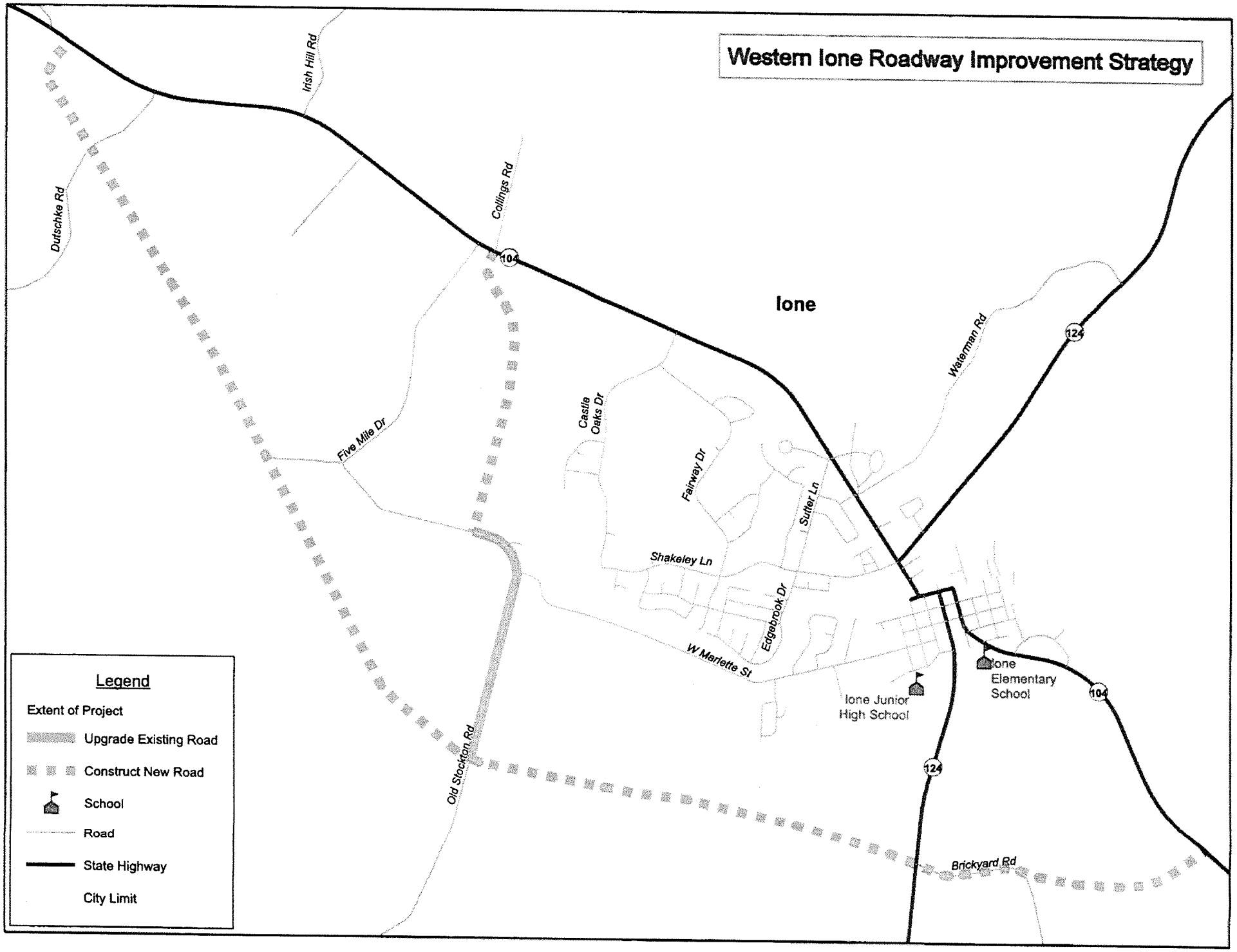
Table 5: Regional Roadway Capital Improvement Program with Multi-Modal Components

Location	Project Description	Time Frame	Cost Est	Revenue: STIP RIP	Revenue: STIP IIP	Revenue: SHOPP Minor	Revenue: RTMF	Revenue: RSTP	Revenue: Other Source (HSIP, ATP, etc.)
	Tier I: Full Funding Potentially Available within 20 Years								
~~Plymouth~~	~~**SR 49/Main St./Shenandoah Rd.:** Construct roundabout~~	~~2 Year~~	~~$3.8m~~			~~$1.1m~~	~~$200k~~		~~$2.5m~~
~~Jackson~~	~~**SR 88/Sutter Street:** Realign & Signalize intersection~~	~~1 Year~~	~~$837k~~			~~$477k~~			~~$360k~~
~~County~~	~~**Ridge Rd./New York Ranch Rd.:** Signalize intersection~~	~~1 Year~~	~~$2.2m~~						~~$2.2m~~
~~Sutter C.~~	~~**Ridge Rd./Sutter Hill Rd.:** Realign intersection~~	~~1 Year~~	~~$974k~~						~~$974k~~
~~County~~	~~**Shake Ridge Rd.:** 6 Turn outs~~	~~2 Year~~	~~$772k~~						~~$772k~~
~~Sutter C.~~	~~**Sutter Creek Bridge:** Bridge replacement~~	~~2 Year~~	~~$2.7m~~						~~$2.7m~~
~~County~~	~~**Fiddletown Rd. Bridge:** Bridge replacement~~	~~5 Year~~	~~$2.8m~~						~~$2.8m~~
~~Jackson~~	~~**SR49/French Bar:** Signalize intersection~~	~~1 Year~~	~~$2m~~			~~$2m~~			
~~County~~	~~**Fiddletown Rd./Shenandoah Rd.:** Realign intersection~~	~~3 Year~~	~~$1.9m~~					~~300k~~	~~$1.6m~~
	SR 88 Pine Grove Corridor Improvement Project ($39.5m total)								
Pine Grove	PS&E	3 Year	$1.6m	$1.6m					
	ROW	5 Year	$2.7m	$2.7m					
	Sub-total[3]:		**$4.3m**	**$3.0m**					**$4.3m**
	SR 88 Pine Grove Corridor Improvement Project ($39.5m total)								
Pine Grove	A. SR 88: Berry St to Hilltop Rd. Rehabilitation and widening of SR 88. Signalize intersections, ped crossing, revise school access, add sidewalks.	(+/-20 year)	$10.8m	$10.8m					
Ione	**SR 104; E. Main to Elementry School:** Sidewalks, bike lanes, school access & safety	10 Year	$350k						$350k
	SR 49/88 Jackson Corridor Improvement Project ($33.1m total)								
Jackson	PA&ED	10 Year	$1.2m	$1.2m					
	PS&E	10 Year	$1.4m	$1.4m					
	A. SR 49/88 from "Jackson Local Collector" to Main St.: Curb ramps & sidewalks	20 Year	$2.4m						$2.4m
	C. SR 49/SR 88 Intersection: Widen bridge & add Lft. turn pockets, improve ped crossing	20 Year	$6.4m						$6.4m
	D. SR 49 from SR 88 to Clinton Rd.: Sidewalks from SR 88 to Schober Ave. & from South Ave. Bridge to French Bar, add SB lane & sidewalk from French Bar Rd. to Clinton	20 Year	$3.6m						$3.6m
	Sutter Street Extension ($8m total)								
Jackson	A. Connect Sutter Street to Hoffman	(+/-20 year)	$5.2m	$2.2m			$3.2m		$2.6m
	B. Hoffman from Sutter Street to Argonaught: Improve to Collector Standards	(+/-20 year)	$2.8m						
	Wicklow Way Extension ($11.6m total)								
County	B. Wicklow Way to Stony Creek: Construct Collector w/ New Development	(+/-20 year)	$4.2m	$2m			$2.2m		
	C. Stony Creek from Argonaut to Wicklow: Improve to Collector Standards	(+/-20 year)	$2.6m						$2.6m
County	**Shenandoah Rd. @ Bell Rd./PM 3.80:** Improve shoulders/drainage, pavement rehab	(+/-20 year)	$1.3m						$1.3m
County	**Fiddletown Rd. @ PM 9.0:** Improve shoulders, pavement rehab, curve corrections	(+/-20 year)	$1.1m						$1.1m
County	**New York Ranch Corridor:** Improve shoulders, pavement rehab, curve corrections	(+/-20 year)	$731k						$731k
County	**Michigan Bar Rd. Corridor:** Improve shoulders, pavement rehab, curve corrections	(+/-20 year)	$416k						$416k
County	**Latrobe Rd.;** Various Locations: Widen roadway & shoulders	+20 year	$676k	$676k					
County	**Shenandoah Rd.;** Various Locations: Widen shoulders, improve drainage, overlay	+20 year	$937k						$937k
	SR 49 Plymouth Corridor Improvement Project ($16.5m total)								
Plymouth	PA&ED	20 Year	$1.3m	$1.3m					
	C. **SR 49/Empire:** Intersection & multimodal improvements	20 Year	$3.5m	$1.5m			$2m		
	D. **SR 49/Zinfandel Rd.:** Intersection & multimodal improvements	20 Year	$2.6m						$2.6m
	Western Ione Roadway Strategy ($108.2m)								
Ione	**SR 104/Golf Links Dr.:** Intersection improvements	20 Year	$1.5m	$1.5m					
	A. Construct Collector w/ New Development	20 Year	$6.9m						$6.9m
	B. Construct Collector w/ New Development	20 Year	$6m						$6m
	C. Upgrade To Collector Standard	20 Year	$722k						
	D. Upgrade To Collector Standard(bridge)	20 Year	$629k				$3m		$1.1m
	E. Upgrade To Collector Standard	20 Year	$2.7m						
Ione	**SR 124/Howard Park/Ione Parkway Dr.:** Turn Pockets and Intersection improvements	20 Year	$1.5m	$1.5m					
County	**Latrobe Rd. @ Lorentz Rd.:** Curve correction, widen shoulders, overlay	10 Year	$559k	$559k					
Drytown	**SR 49; SR 16 to Drytown:** Widen shoulders, improve ped crossing, safety signage	20 Year	$250k			$250k			
Jackson	**China Grave Yard Rd.:** Widen shoulders, drainage, shoulders, safety signage, overlay	10 Year	$320k						$320k
Ione	**SR 104; Shakely Ln to Sutter Ln;** sidewalks and bike signage	10 Year	$250K						$250k
Ione	**Shakeley Ln;** Sidewalks and bike signage	10 Year	$550k						$550k
County	**SR 16/Latrobe Rd.:** Add WB RT turn lane & EB receiving pocket	10 Year	$750k			$750k			
Ione	**SR 124; E. Main St. to Howard Park:** Complete sidewalks & pedestrian crossings	20 Year	$175k						$175k
County	**SR 88/Buckhorn Ridge Rd.:** Widen EB shoulder, correct sight distance	20 Year	$300k			$300k			
County	**SR 88; Columbia Dr. to Antelope Dr.:** Nob Hill curve correction	20 Year	$2.5m			$2.5m			
County	**SR 49/Bell Rd.:** Curve correction, widen shoulders	20 Year	$200k			$200k			
County	**SR 88/SR 104/Jackson Valley Rd. (E.):** Signalize intersection	(+/-20 year)	$1.5m			(X)			(X)
	Sub-total:			**$24.7m**		**$4m**	**$10.8m**		**$39.5m**
	Total			**$27.7m**		**$4m**	**$10.8m**	**$300k**	**$49.33m**
	TIER I TOTAL:		**$97.315M**				**$97.315M**		


Pine Grove Corridor Improvement Project
Red Hill Mine Rd
Spurlock Ln
Mitchell Mine Rd
Berry St
Pine Grove Volcano Rd
Ridge Rd
Pine Grove Elementary School
88
Mineral Ridge Dr
Gold Mine Rd
Aqueduct Rd
Petersen Ranch Dr
Climax Rd
Irishtown Rd
Pitts Dr
S Cedar Ln
Spagnoli Mine Rd
Mt Zion Rd
Valley Vista Ct
Oak Ln
Tabeaud Rd
Legend
Extent of Project
Upgrade Existing Road
Construct New Road
School
Road
State Highway
City Limit


Sutter Street Extension
88
49
Starks Ln
Mariposa Ave
Ridgecrest Dr
El Dorado Way
Spunn Rd
Argonaut Ln
Amador St
Argonaut Dr
Buena Vista Dr
Wicklow Way
Hillside Pl
Westview Dr
N Main St
Jackson
Argonaut High School
Vogen Toll Rd
Sutter St
Jackson Junior High School
Stony Creek Rd
Hoffman St
Blue Oak Ln
E Sierra View Dr
Circle Dr
Mountain View Dr
Legend
Extent of Project
Upgrade Existing Road
Construct New Road
School
Road
State Highway
City Limit


Wicklow Way Extension
Kennedy Mine Rd
Martell Rd
49
Kennedy Flat Rd
88
Mariposa Ave
Ridgecrest Dr
El Dorado Way
Spunn Rd
N Main St
Wicklow Way
Hillside Pl
Argonaut Ln
Amador St
Argonaut Dr
Buena Vista Dr
Westview Dr
Argonaut High School
Jackson
Vogan Toll Rd
Stony Creek Rd
Sutter St
Jackson Junior High School
Hoffman St
Legend
Extent of Project
Upgrade Existing Road
Construct New Road
School
Road
State Highway
City Limit


Western Ione Roadway Improvement Strategy
Ione
Irish Hill Rd
Dutschke Rd
Collings Rd
104
Five Mile Dr
Castle Oaks Dr
Fairway Dr
Sutter Ln
Waterman Rd
124
Shakeley Ln
Edgebrook Dr
W Marlette St
Ione Junior High School
Ione Elementary School
104
124
Old Stockton Rd
Brickyard Rd
Legend
Extent of Project
Upgrade Existing Road
Construct New Road
School
Road
State Highway
City Limit

RESOLUTION NO. 2022-01

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IONE APPROVING THE FISCAL YEAR 2020/21 REGIONAL TRAFFIC MITIGATION FEE PROGRAM ANNUALREPORT AND FUNDING OPTIONS FOR FISCAL YEAR 2021/22

WHEREAS, pursuant to its authority under Government Code 66000 et. seq., the Board of Supervisors has previously imposed regional traffic mitigation fees and amended said fees pursuant to Resolution Nos. 99-359A; 00-434; 05-164; 08-094; 08-095; and 09-057; and

WHEREAS, the purpose of said fees is to mitigate the impact of new developments on the regional transportation system of Amador County; and

WHEREAS, The County of Amador and the County's five incorporated cities have all collected and deposited all regional traffic mitigation fees with the Amador County Transportation Commission ("ACTC") which has maintained the funds in a separate, non co-mingled capital facilities fund ("capital facilities fund") established for the above stated purpose pursuant to Government Code Section 66006(a) and (b); and

WHEREAS, the ACTC and the City of Ione have made available to the public an annual program implementation report for fiscal year 2020/21 ("Annual Report") which is hereby incorporated by reference; and

WHEREAS, the Annual Report was prepared in accordance with Government Code Section 66001(d) and 66006(b)(1); and

WHEREAS, the City of Ione has reviewed the information provided in the Annual Report and determined the information contained therein is true and correct; and

WHEREAS, the Annual Report reflects implementation of prior year recommendations of the Regional Traffic Mitigation Fee Oversight Committee as approved by the cities and County for programming and expending funds for projects consistent with the Memorandum of Understanding ("MOU") establishing the countywide Regional Traffic Mitigation Fee Program and the Regional Traffic Mitigation Fee Nexus Plan 2000-2025 ("Nexus Plan"); and

WHEREAS, the City of Ione has agendized and considered the Annual Report at a regularly scheduled Board of Supervisors meeting and considered public comment concerning the Annual Report during said meeting.

NOW, THEREFORE, be it resolved that the City of Ione, County of Amador, State of California, finds and determines the following:

1. The above recitals are true and represent findings of the Board of Supervisors.
2. The Board of Supervisors hereby approves the Annual Report for fiscal year 2020/21 as presented.
3. That all recommendations for funding are consistent with the MOU and the Nexus Plan as required.
4. The approval of the Annual Report and programming and expenditure of funds consistent with the previously approved MOU and Nexus Plan is not a "project" or otherwise an act requiring environmental review pursuant to the California Environmental Quality Act.
5. That all Regional Traffic Mitigation Fees previously collected and not yet expended are accounted for and are still needed for the purposes for which they were collected.

The foregoing resolution was duly introduced and adopted by the City Council of the City of Ione at their regular meeting held on January 18, 2022 by the following vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

_____
Dan Epperson, Mayor

ATTEST:

_____
Janice Traverso, City Clerk

#4

Agenda Item

DATE: January 18, 2022

TO: Mayor Epperson and City Council

FROM: Michael Rock, Interim City Manager

SUBJECT: Delete Administrative Analyst and Add Management Analyst position to the Salary Schedule

---

RECOMMENDED ACTION:

1. Delete (1) FTE position of Administrative Analyst from the Salary Schedule
2. Add (1) FTE position of Management Analyst to the Salary Schedule
3. Allocate an additional $14,431/year for salary and benefits for the Management Analyst position to account code 1111-65-5110 beginning in FY 2022/23

FISCAL IMPACT:

The overall impact of the Management Analyst position compared with the lower paying Administrative Analyst position is an increase in total compensation of about $14,431 for a full fiscal year beginning in FY 2022/23. The Management Analyst base salary range is $70,000-$85,086.

The City has funding available for the increase in the current fiscal year due to salary savings on positions still not filled and increasing revenues.

BACKGROUND:

The City recruited for an Administrative Analyst position over the last three months. There were only five applications received and only three candidates that qualified for an interview. Of the three candidates invited for an interview only two confirmed. After conducting the interviews with a professional panel of outside and inside staff no candidates were selected to fill the position.

The City has grown steadily over the last several years and now has a population of over 6,000 residents and 10,000 when counting the MCSP census. The need for a higher level of staff support has become very evident over the last year. The Management Analyst requires more experience and education than the Administrative Analyst and thus commands a higher salary.

Currently there is almost no professional/analytical staff support to the City Manager, the human resource function or any of the department heads. This has created delays and sometimes an inability to complete vital work. There are some grant opportunities and a considerable amount of analytical work that cannot be assigned to any existing staff due to a lack of time or skill set to complete the work. The Management Analyst is a key position in any city that can write and be awarded grants, dramatically improve processes and procedures, analyze the cost/benefit of a

project, and make recommendations, and to update a myriad of documents such as the Hazard Mitigation Plan, the Emergency Operations Plan, the personnel policies, and many other city policies from time to time.

ATTACHMENTS:

Management Analyst Job Specification

Management Analyst

Salary $70,000 - $85,086 Annually

To perform professional administrative, financial, budgetary and operational support and analysis for a department, division or program; to perform research, statistical, and other analytical work; and to fulfill other administrative assignments in functional areas such as budget, contract administration, grant administration, transportation funding and project management, communications, legislative monitoring, and regulatory compliance.

SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from the City Manager or his/her designee. Supervision over technical and administrative support personnel.

EXAMPLES OF ESSENTIAL DUTIES

Duties may include, but are not limited to, the following:

- Assist in the preparation, development, and administration of the City operating and capital improvement budgets and supporting analyses and forecasts; prepare revenue projections, conduct fee analyses and recommend strategies to meet budgetary targets.
- Research, evaluate, and prepare statistical, financial, and demographic data used in reports, studies, surveys and analyses;
- Analyze and make recommendations in the development and administration of assigned program area.
- Research and analyze pending legislation and identify impact to department programs and activities;
- Serve as liaison between outside organizations and the City;
- Provide professional guidance with respect to City policies and procedures.
- Participate in the development and implementation of departmental strategic plans.
- Investigate, analyze, develop and prepare special studies or projects and corresponding documentation and technical reports; make recommendations.

- Analyze, revise and develop fees; negotiate and administer contracts; ensure compliance with department procedures, City policies, and pertinent laws, regulations and ordinances.
- Coordinate and participate in financial and administrative activities of an assigned department, division or program;
- Participate in the administration of reimbursement activities and programs;
- Review and approve a variety of accounting transactions for assigned department.
- Research, document, coordinate and participate in the implementation of new technology including the development of tools, processes and procedures;
- Develop and provide training and serve as system administrator.
- Assist in the development and analysis of departmental policies, procedures and systems; recommend goals and objectives.
- Receive, research, and respond to questions from outside agencies, other City departments and the general public;
- Support City's communications and public relations efforts.
- Prepare and present staff reports and presentations at various City Council, commission/board, and other governmental meetings;
- Draft City Council documents; serve as a staff liaison on various committees and task forces.
- Research grant opportunities and review grant guidelines and requirements to assess compliance with requirements and risks associated with receiving grants;
- Prepare grant analyses and proposals;
- Develop, maintain and monitor grant budgets and ensure all requirements are being met and submitted accordingly.
- Assist with the selection and management of consultants and contractors;
- Develop, monitor and administer contracts.
- Evaluate operations and activities of assigned responsibilities;
- Recommend improvements and modifications;
- Prepare various financial, statistical and narrative reports on operations and activities.
- Represent function on committees, outside organizations, and at staff subcommittees as necessary;
- Coordinate technical support activities with other departments, divisions and outside agencies.
- Plan, prioritize, assign, and review the work of support staff;
- Participate in the recommendation of the appointment of personnel;
- Provide or coordinate staff training; and work with employees to improve performance.
- Answer questions and provide information to the public, via telephone, e-mail, and written correspondence;

- Investigate complaints and recommend corrective action as necessary to resolve complaint.
- Build and maintain positive working relationships with co-workers, other City employees and the public using principles of good customer service.
- Perform related duties as assigned.

MINIMUM QUALIFICATIONS

Knowledge of:

Principles and practices of organization and administration. Principles and practices of budget preparation, analysis and administration.

Statistical and graphical presentation methods.

Principles and practices of research and quantitative analysis.

Principles and procedures of financial record keeping and reporting.

Technical report writing procedures and grant proposal development.

Ability to:

Learn programs, processes and structure of assigned department.

On a continuous basis, know and understand all aspects of the job.

Intermittently analyze work papers, reports and special projects;

identify and interpret technical and numerical information;

observe and problem solve operational and technical policy and procedures.

On a continuous basis, sit at desk for long periods of time.

Intermittently twist to reach equipment surrounding desk;

perform simple grasping and fine manipulation;

use telephone, and write or use a keyboard to communicate through written means;

and lift or carry weight of 10 pounds or less.

Learn applicable Federal, State and local laws, codes and regulations.

Research, analyze and resolve technical administrative issues.

Work with and maintain the confidentiality of information.

Communicate clearly and concisely, both orally and in writing.

Establish and maintain effective working relationships with those contacted in the course of work.

Minimum Experience and Training Required:

Two years of responsible experience performing duties of an Administrative Analyst or similar position

A Bachelor's degree from an accredited college or university, preferably in business administration, finance, accounting, public administration, or a related field.

License or Certificate: Possession of a valid California driver's license by date of appointment.

Supplemental Information

WORKING CONDITIONS: May be required to attend off-hour meetings.

PHYSICAL DEMANDS: Must possess mobility to work in a standard office setting and use standard office equipment, including a computer; vision to read printed materials and a computer screen; and hearing and speech to communicate in person and over the telephone. This is primarily a sedentary office classification although standing in work areas and walking between work areas may be required. Finger dexterity is needed to access, enter and retrieve data using a computer keyboard, typewriter keyboard or calculator and to operate standard office equipment. Positions in this classification occasionally bend, stoop, kneel, reach, push and pull drawers open and closed to retrieve and file information. Positions in this classification occasionally lift and carry reports and records that typically weigh less than 20 pounds.

ENVIRONMENTAL ELEMENTS: Employees work in an office environment with moderate noise levels, controlled temperature conditions and no direct exposure to hazardous physical substances. Employees may interact with upset staff and/or public and private representatives in interpreting and enforcing department guidelines, policies and procedures.

Item #5

Agenda Item

DATE: January 18, 2022

TO: Mayor Epperson and City Council

FROM: Michael Rock, Interim City Manager

SUBJECT: Approve Salary Range at Step 5 for Building Inspector/Code Enforcement Officer

---

RECOMMENDED ACTION:

Approve Step 5 ($6757/month) for the new hire Building Inspector/Code Enforcement Officer.

FISCAL IMPACT:

There is no impact to the budget as the position was budgeted for a full fiscal year and thus there are significant salary savings (about $50,000).

BACKGROUND:

The Employee Handbook and the Ione Municipal Code states that any new hire salary or hourly rate above a Step 3 (or Step C) must be approved by the City Council.

The City recruited over the last several months for this position. The City narrowed the field of applicants and assembled a professional interview panel with a mix of City staff and professionals from the industry and conducted a professional interview. Kevin Sparks, who has been working for Amador County as a Senior Building Inspector IV was selected.

Kevin brings to Ione twenty-six years of experience in building inspection and code enforcement. He has every possible certification a professional in the industry can obtain including Certified Building Official, Certified Plans Examiner, Certified Accessibility Inspector, and the highly coveted Master Code Professional Certification. See attached all of the professional training and certifications for Mr. Sparks.

ATTACHMENTS:

Job Classification for Building Inspector/Code Enforcement Officer

Building Inspector I/II

Class Title Building Inspector II

Salary $66,708 - $81,084 Annually

DEFINITION: The Building Inspector I/II reviews plans and inspects commercial and residential building projects, and enforces a variety of codes, ordinances, and established standards to achieve compliance with applicable electrical, mechanical, plumbing, structural, and dangerous housing/building codes.

SUPERVISION RECEIVED AND EXERCISED: Receives general direction from the Public Works Superintendent.

CLASS CHARACTERISTICS: The Building Inspector I is the entry level class of the technical/paraprofessional Building Inspector series. Initially, under close supervision, the incumbent performs the more routine duties while learning City policies and procedures and becoming familiar with the variety of departmental systems and practices. As experience is gained, duties become more diversified and are performed under more general supervision.

The Building Inspector II is the experienced, journey level class in the series, fully competent to independently perform assigned duties. This class is distinguished from the Building Inspector I by the relative independence with which they perform their duties of reviewing plans and inspecting commercial and residential building projects and enforcing a variety of codes, ordinances, and established standards to achieve compliance with applicable electrical, mechanical, plumbing, and structural codes. This class is distinguished from the Senior Building Inspector in that the latter serves as either the senior or advanced level specialist in the series.

The Building Inspector I is flexibly staffed with the Building Inspector II and advancement to the Building Inspector II shall occur after satisfactorily performing the duties of a Building Inspector I for two (2) years and upon recommendation from the department head. Satisfactory performance means an overall satisfactory or higher rating on the performance evaluation during the last evaluation period.

Example of Duties

EXAMPLES OF ESSENTIAL FUNCTIONS: (Illustrative Only): *Management reserves the right to add, modify, change or rescind the work assignments of different positions and to make reasonable accommodations so that qualified employees can perform the essential functions of the job.*

- Inspects commercial and residential buildings and structures to determine compliance with the structural, mechanical, plumbing, electrical, and housing codes and approved plans.
- Identifies and enforces a variety of codes, ordinances, and standards violations for conformance with plans and specifications.
- Inspects workmanship and materials in building construction plans for conformance with plans and specifications, and inspects potentially substandard or dangerous buildings.
- Works with diagrams, specifications, plans, and similar documents.
- Reads and interprets building construction and engineering plan specifications and codes.
- Prepares and maintains reports, letters, and correction notices on code violations and variations from approved plans.
- Enters required information into the database for tracking and accessibility.
- Confers with and assists architects, engineers, contractors, builders, homeowners, tenants, and the general public in the field and office regarding the interpretation of requirements and restrictions and keeps records and prepares reports as necessary.
- Identifies illegal construction activity and issues violation notices.
- Enforces the Municipal Code Chapter 8.06 (Vacant, Abandoned, Distressed or Foreclosed Properties), 8.12 (Abandoned Vehicle Abatement), 8.20 (Protection of Tree Stock) and Title 15 (Buildings and Construction)

Minimum Qualifications

EDUCATION AND EXPERIENCE: *Any combination of training and experience which would provide the required knowledge and skill. A typical way to obtain the required knowledge and skill would be:*

Education: High school diploma or equivalent. AA/AS degree in Construction Technology, Architecture, or related field is highly desirable.

Experience: *Building Inspector I:* One (1) year of full-time experience as a building inspector performing work within one or more inspection disciplines in a municipal agency as a consultant or municipal employee. *Building Inspector II:* Two (2) years as a Building Inspector I with the City of Ione; OR three (3) years of experience as a building inspector performing work within one or more inspection disciplines in a municipal agency as a consultant or municipal employee.

LICENSES AND CERTIFICATES: Possession of, or ability to obtain and maintain, a California driver license by the time of appointment. Individuals who do not meet this requirement due to a disability will be reviewed in a case-by-case basis.

At the option of the City, persons hired into this class may be required to either possess at entry or obtain within specified time limits, designated licenses, certificates or specialized education and training relevant to the area of assignment. Additional requirements may include, but are not limited to the

following:

- Possession of, or ability to obtain and maintain a Building Inspector's Certificate as issued by the I.C.C. within one (1) year of employment.
- Certified Combination Inspector
- Certified Building Inspector
- Certified Electrical Inspector
- Certified Plumbing Inspector
- Certified Mechanical Inspector
- Accessibility Specialist Certification (CASp)

Supplemental Information

WORKING CONDITIONS: May be required to attend off-hour and/or off-site meetings.

PHYSICAL DEMANDS: Must possess mobility to work in a construction or field environment including exposure to loud noise, frequent exposure to chemicals, fumes, and other environmental substances; mobility to inspect various commercial and residential development sites, including traversing uneven terrain, climbing ladders, stairs and other temporary or construction access points; mobility to work in a standard office setting and use standard office equipment, including a computer; to attend meetings and to operate a motor vehicle; vision to read printed materials and a computer screen and make inspections; and hearing and speech to communicate in person and over the telephone. Finger dexterity is needed to access, enter and retrieve data using a computer keyboard or calculator and to operate standard office equipment. Positions in this classification occasionally bend, stoop, kneel, reach, climb, push and pull drawers open and closed to retrieve and file information. Positions in this classification occasionally lift, move, and carry objects that typically weigh up to 50 pounds.

ENVIRONMENTAL ELEMENTS: Employees generally work in a construction or field environment including inclement weather conditions and construction and traffic hazards. Employees may also work in an office environment with moderate noise levels, controlled temperature conditions and no direct exposure to hazardous physical substances. Employees may interact with upset staff and/or public and private representatives in interpreting and enforcing department guidelines, policies and procedures.

Other Requirements

Knowledge of: Methods, practices, and materials used in construction work; proper inspection techniques to examine workmanship and materials; safety rules, regulations, and practices applied to construction areas and office spaces; codes, ordinances, and policies applicable to electrical, mechanical, plumbing, and structural codes; common word processing, spreadsheet, and database software.

Skill in: Applying technical knowledge and following proper inspection techniques to examine workmanship and materials; recognizing correct installations of building systems and detecting defects and faults in construction workmanship and materials; detecting deviations from plans, regulations, and reading and interpreting building construction and engineering plans, specifications, and codes; entering data and retrieving information from various computer systems for necessary duties; understanding diagrams, specifications, plans, and similar documents at a level necessary for efficient job performance; operating a personal computer and other electronic equipment, including field entry devices and cellular phones; effectively communicating verbally and in writing; establishing and maintaining effective working relationships with those contacted in the course of work.

Agenda Item

6

DATE: January 18, 2022

TO: Mayor Epperson and the City Council

FROM: Michael Rock, Interim City Manager
John Alfred, Sergeant

SUBJ: Award of Information Technology Services Agreement to Computer Brokers and Systems Corporation

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RECOMMENDED ACTION:

Staff recommends the award of an Information Technology Services Agreement to Computer Brokers and Systems Corporation.

BACKGROUND:

At the direction of the City Council, an RFP (request for proposal) was drafted and advertised to solicit proposals for managed I.T. Services for the City of Ione. The RFP was issued on 9/20/2021. The City received several inquiries on the RFP, and three local companies submitted final submissions for consideration.

The Interim City Manager convened an interview panel, and interviews with the three finalists were conducted on December 22, 2021. The three companies gave the panel a presentation of services provided, and then there was a question-and-answer session. All three companies were evaluated on price, services provided, background, and education. Reference checks were conducted on all candidates.

After careful consideration the panel selected Computer Brokers as the firm most qualified to provide the full spectrum of services needed for the City.

FISCAL IMPACT:

There will be an increased cost for I.T. services. The increase will result from more I.T. services covered under the Service Agreement. With an increase in cyber-terrorism, the City must take proactive steps to protect government and resident data. The Information Technology Services agreement with Computer Brokers and Systems Corporation will cost the City $35,016 annually for managed I.T. Services.

ATTACHMENTS:

Agreement for Professional Services with Computer Brokers and Systems Corporation

STANDARD FORM PERSONAL SERVICES CONTRACT
BETWEEN
THE CITY OF IONE
AND
COMPUTER BROKERS AND SYSTEMS CORPORATION

THIS PERSONAL SERVICES CONTRACT ("Contract") is made and entered into this 18th day of January 2022, by and between the **CITY OF IONE, a political subdivision of the State of California ("City")**, and **COMPUTER BROKERS AND SYSTEMS CORPORATION, a corporation** ("Contractor").

RECITALS

WHEREAS, City desires to retain a person or firm to provide the following services: Information Technology Services; and

WHEREAS, Contractor warrants that it is qualified and agreeable to render the aforesaid services.

AGREEMENT

NOW, THEREFORE, for and in consideration of the agreement made, and the payments to be made by City, the parties agree to the following:

I. SCOPE OF SERVICES: Contractor agrees to provide all of the services described in Exhibit A.

II. ADDITIONAL SERVICES: The City may desire services to be performed which are relevant to this Contract or the services to be performed hereunder, but have not been included in the scope of the services listed in Paragraph I above, and Contractor agrees to perform said services upon the written request of City. These additional services could include, but are not limited to, any of the following:

A. Serving as an expert witness for the City in any litigation or other proceedings involving the project or services.

B. Services of the same nature as provided herein which are required as a result of events unforeseen on the date of this contract.

C. Projects outside the scope of work in Exhibit A (large projects not covered under services).

III. CITY FURNISHED SERVICES: The City agrees to:

A. Facilitate access to and make provisions for the Contractor to enter upon public and private lands as required to perform their work.

B. Make available to Contractor those services, supplies, equipment and staff that are normally provided for the services required by the type of services to be rendered by Contractor hereunder and as set forth in Exhibit A.

C. Make available all pertinent data and records for review.

IV. TERM OF CONTRACT: This Contract shall commence on _____ and shall terminate on _____, unless sooner terminated in accordance with the terms hereunder. This contract can be renewed for two additional one year terms with City Council approval for up to five years total.

V. CONTRACT PERFORMANCE TIME: All the work required by this Contract shall be completed and ready for acceptance no later than the expiration of this contract.

VI. FEES: The fees for furnishing services under this Contract shall be based on the rate schedule which is attached hereto as Exhibit B. Said fees shall remain in effect for the entire term of this Contract.

VII. MAXIMUM COST TO CITY: Notwithstanding any other provision of this Contract, in no event will the cost to City for the services to be provided herein exceed the maximum sum of $35,016 per year, including direct non-salary expenses.

VIII. PAYMENT: The fees for services under this Contract shall be due within 60 calendar days after receipt and approval by City of an invoice covering the service(s) rendered to date.

With respect to any additional services provided under this Contract as specified in Paragraph II hereof, Contractor shall not be paid unless Contractor has received written authorization from City for the additional services prior to incurring the costs associated therewith. Said additional services shall be charged at the rates set forth on Exhibit B.

Invoices or applications for payment to the City shall be sufficiently detailed and shall contain full documentation of all work performed and all reimbursable expenses incurred. Where the scope of work on the Contract is divided into various tasks, invoices shall detail the related expenditures accordingly. Labor expenditures need documentation to support time, subsistence, travel and field expenses. No expense will be reimbursed without adequate documentation. This documentation will include, but not be limited to, receipts for material purchases, rental equipment and subcontractor work.

Notwithstanding any other provision herein, payment may be delayed, without penalty, for any period in which the State or Federal Government has delayed

distribution of funds that are intended to be used by the City for funding payment to Contractor.

IX. INSURANCE: Contractor shall procure and maintain for the duration of the Contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder and the results of that work by the Contractor, his agents, representatives, employees, or subcontractors.

Minimum Scope and Limit of Insurance

A. The Contractor shall maintain a commercial general liability (CGL) insurance policy (Insurance Services Office Form CG 00 01) covering CGL on an occurrence basis, including products and completed operations, property damage, bodily injury, and personal & advertising injury, with limits in the amount of $1,000,000, and a general aggregate limit of $2,000,000.

The City, its officers, officials, employees, and volunteers are to be covered as additional insureds on the General Liability Policy with respect to liability arising out of work or operations performed by or on behalf of the Contractor, including materials, parts, or equipment furnished in connection with such work or operations. Additional insured should read as follows:

City of Ione
1 E Main Street
Ione, CA 95640

X. WORKER'S COMPENSATION: The Contractor acknowledges that it is aware of the provisions of the Labor Code of the State of California which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code and it certifies that it will comply with such provisions before commencing the performance of the services to be performed under this Contract and at all times during the performance of the services to be performed hereunder. A copy of the certificates evidencing such insurance with policy limits of at least $1,000,000 per accident for bodily injury or disease (or, in the alternative, a signed City Workers' Compensation Exemption form) shall be provided to City prior to commencement of work.

XI. INDEMNIFICATION: Contractor agrees to indemnify, defend at its own expense, and hold City harmless from any and all liabilities, claims, losses, damages, or expenses, including reasonable attorney's fees, arising from any and all acts or omissions to act of Contractor or its officers, agents, or employees in performing

services under this Contract; excluding, however, such liabilities, claims, losses, damages, or expenses arising from City's sole negligence or willful misconduct.

XII. NONDISCRIMINATORY EMPLOYMENT: In connection with the execution of this Contract and the services to be provided hereunder, the Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, age, sex, national origin, political affiliation, ancestry, marital status or disability. This policy does not require the employment of unqualified persons.

XIII. INTEREST OF PUBLIC OFFICIALS: No officer, agent or employee of the City during their tenure, nor for one year thereafter, shall have any interest, direct or indirect, in this Contract or the proceeds thereof.

XIV. SUBCONTRACTING AND ASSIGNMENT: The rights, responsibilities and duties established under this Contract are personal to the Contractor and may not be subcontracted, transferred or assigned without the express prior written consent of the City.

XV. LICENSING AND PERMITS: The Contractor shall maintain the appropriate licenses throughout the life of this Contract. Contractor shall also obtain any and all permits which might be required by the work to be performed herein.

XVI. BOOKS OF RECORD AND AUDIT PROVISION: Contractor shall maintain on a current basis, complete books and records relating to this Contract. Such records shall include, but not be limited to, documents supporting all bids and all expenditures for which any reimbursement is sought. The books and records shall be original entry books. In addition, Contractor shall maintain detailed payroll records, including all subsistence, travel and field expenses, and canceled checks, receipts and invoices for all items for which any reimbursement is sought. These documents and records shall be retained for at least ten years from the completion of this Contract (42CFR Sections 433.32, 438.3(h) and (u)).

Contractor will permit City to audit all books, accounts or records relating to this contract or all books, accounts or records of any business entities controlled by Contractor who participated in this contract in any way. Any such audit may be conducted on Contractor's premises or, at City's option, Contractor shall provide all books and records within a maximum of 15 calendar days upon receipt of written notice from City.

Contractor shall promptly refund any moneys erroneously charged. If City ascertains that it has been billed erroneously by Contractor for an amount equaling 5% or more of the original bid, Contractor shall be liable for the costs of the audit in addition to any other penalty to be imposed. This paragraph applies to any contract which provides for reimbursement of expenses.

XVII. CONFIDENTIALITY: All information and records obtained in the course of providing services under this Contract shall be confidential and shall not be open to examination for any purpose not directly connected to the administration of this program or the services provided hereunder. Both parties shall comply with State and Federal requirements regarding confidential information.

XVIII. TITLE: It is understood that any and all documents, information, computer disks, and reports of any kind concerning the services provided hereunder, prepared by and/or submitted to the Contractor, shall be the sole property of the City. The Contractor may retain reproducible copies of drawings and copies of other documents. In the event of the termination of this Contract, for any reason whatsoever, Contractor shall promptly turn over all information, writing, computer disks, and documents to City without exception or reservation. Contractor shall transfer from computer hard drive to disk any information or documents stored on hard drive and provide City with said disk.

XIX. TERMINATION:

A. Either party hereto may terminate this Contract for any reason by giving thirty (30) calendar days written notice to the other party. Notice of Termination shall be by written notice to the other party and shall be sent by registered mail.

B. If the Contractor fails to provide in any manner the services specified under this Contract or otherwise fails to comply with the terms of this Contract, or violates any ordinance, regulation, or other law which applies to its performance herein, the City may terminate this Contract by giving five calendar days written notice to Contractor.

C. The Contractor shall be excused for failure to perform services herein if such services are prevented by acts of God, strikes, labor disputes or other forces (force majeure) over which the Contractor has no control.

D. In the event of termination, not the fault of the Contractor, the Contractor shall be paid for services performed up to the date of termination in accordance with the terms of this Contract.

XX. RELATIONSHIP BETWEEN THE PARTIES: It is expressly understood that in the performances of the services herein, the Contractor, and the agents and employees thereof, shall act in an independent capacity and as an independent contractor and not as officers, employees or agents of the City.

XXI. AMENDMENT: This Contract may be amended or modified only by a written instrument signed by both parties.

XXII. ASSIGNMENT OF PERSONNEL: The Contractor shall not substitute any personnel for those specifically named in its proposal unless personnel with substantially equal or better qualifications and experience are provided, acceptable to City, as evidenced in writing.

XXIII. WAIVER: No provision of this Contract or the breach thereof shall be deemed waived, except by written consent of the party against whom the waiver is claimed.

XXIV. SEVERABILITY: If any provision of this Contract is determined by a court of competent jurisdiction to be invalid or unenforceable, the remainder of this Agreement shall not be affected thereby. Each provision shall be valid and enforceable to the fullest extent permitted by law.

XXV. JURISDICTION AND VENUE: This Contract and the obligations hereunder shall be construed in accordance with the laws of the State of California. The parties hereto agree that venue for any legal disputes or litigation arising out of this Contract shall be in San Joaquin County, California.

XXVI. ENTIRE AGREEMENT: This Contract constitutes the entire agreement between the parties with respect to the subject matter hereof, and all prior or contemporaneous agreements, understandings, and representations, oral or written, are superseded.

XXVII. EXHIBITS: All "Exhibits" referred to below or attached to herein are by this reference incorporated into this Contract:

Exhibit Designation	Exhibit Title
Exhibit A	Services to be provided by Contractor
Exhibit B	Compensation or Fees to be Paid to Contractor
Exhibit C	Health Insurance Portability and Accountability Act Supplement (HIPPA)

XXVIII. DESIGNATED AGENTS: The parties represent and warrant that they have full power and authority to execute and fully perform their obligations under this Contract pursuant to their governing instruments, without the need for any further action, and that the person(s) executing this Contract on behalf of each party are the duly designated agents of each party and are authorized to do so.

XXIX. COMPLIANCE WITH APPLICABLE LAWS: The Contractor shall comply with any and all federal, state and local laws, regulations, and ordinances affecting the services covered by this Contract. Contractor shall comply with the Health Insurance Portability and Accountability Act and shall execute the Health

Insurance Portability and Accountability Act Supplement attached to this Contract as Exhibit C.

XXX. ATTORNEY'S FEES: If any party hereto employs an attorney for the purpose of enforcing or construing this Contract, or any judgment based on this Contract, in any legal proceeding whatsoever, including insolvency, bankruptcy, arbitration, declaratory relief or other litigation, including appeals or rehearing, the prevailing party shall be entitled to receive from the other party, or parties thereto, reimbursement for all attorneys' fees and all costs, including but not limited to service of process, filing fees, court and court reporter costs, investigative costs, expert witness fees, and the cost of any bonds, whether taxable or not. If any judgment or final order be issued in that proceeding, said reimbursement shall be specified therein.

XXXI. NOTICES: Any notice required to be given pursuant to the terms and conditions hereof shall be in writing, and shall be via one of the following methods: personal delivery, prepaid Certified First-Class Mail, or prepaid Priority Mail with delivery confirmation. Unless others designated by either party, such notice shall be mailed to the address shown below:

If to City:

CITY OF IONE
P.O. BOX 398
IONE, CA 95640
209-274-2412

If to Contractor:

MICHAEL BENDER
COMPUTER BROKERS AND SYSTEM CORPORATION
5720 EAST CHEROKEE ROAD
STOCKTON, CA 95215
MIKE@COMPUTER-BROKERS.COM
209-931-2262

[signature page to follow]

IN WITNESS WHEREOF, the parties hereunto have executed this Contract on the date written below.

CITY OF IONE:

By _____
Michael Rock,
Interim City Manager

Date: _____

CONTRACTOR:

By _____
Michael Bender,
Chief Executive Officer

Date: 1/7/2022

Attest:

_____
City Clerk, Janice Traverso

Approved as to form:

_____
Sophia R. Meyer
City Attorney

EXHIBIT A

SERVICES TO BE PROVIDED BY CONTRACTOR

HARDWARE MAINTENANCE AGREEMENT

5720 East Cherokee Road
Stockton CA 95215
Phone(209)931-2262
Fax(209)931-2984
www.computer-brokers.com
Mike@computer-brokers.com

1. Maintenance Service

1.1 Computer Brokers agrees to provide, or cause to be provided, to Customer maintenance services during the period specified in this Agreement to keep the Equipment in, or restore the Equipment to, good working order.

1.2 The maintenance service obligations described herein extend only to the Equipment listed on the attached Customer Profile Form and includes service coverage in the Territory only.

1.3 Maintenance services will be provided by Computer Brokers, or an independent contractor selected by Computer Brokers, between the hours of 8:00 a.m. and 5:00 p.m. local time Monday through Friday, excluding holidays observed by Computer Broker's corporate offices, (the "Service Period").

1.4 Maintenance services will be performed by Computer Brokers, or an independent contractor selected by Computer Brokers, on an unscheduled basis when notified by the Customer that Equipment is inoperable.

1.5 Unless otherwise specified in an exhibit hereto, maintenance services will including replacement of parts deemed necessary to restore Equipment to operating condition unless such parts are identified as Customer replaceable, consumable or expendable. All parts will be furnished on an exchange basis and will be new standard parts or parts of comparable quality. Computer Brokers shall have no obligation to replace Customer replaceable, consumable or expendable items, such as printer ribbons, batteries, print heads, magnetic media, paper supplies and similar items. Replaced parts removed from Equipment become the property of Computer Brokers.

1.6 Preventative Maintenance, requested by Customer, which is not performed in conjunction with Hardware Maintenance Service will be billed at Computer Broker's then-current Time-and-Material Rates.

1.7 In the event any Unit of Equipment is found to contain upgraded components (as opposed to the manufacturer's standard components or Computer Brokers identified configurations for such Equipment) or add-ons, and such upgraded components or add-ons were not previously identified by Customer on the Customer Profile Form attached hereto, the cost of repairs, adjustments or parts required to restore such Equipment to good operating condition will be charged to Customer at then-current Time-and-Material Rates. Computer Brokers shall have the right to adjust the Service Charges for such Equipment for the remaining term of this Agreement.

1.8 Computer Broker's then-current Time-and-Material Rates shall apply to services which: (1) are beyond the scope of Hardware Maintenance Services or Installation Service, (2) are beyond the Service Period, (3) are performed on equipment not covered hereunder, or (4) represent remedial or repair services to Equipment as a result of, for example, the following: damage caused by water, wind, lightning, accident, vandalism or burglary; neglect or misuse; alterations, deviations from manufacturer's design; acts of non-Computer Brokers independent contractors or representatives; transportation or relocation of Equipment; operator error, the failure of non-covered equipment if adversely affecting and connected to covered Equipment, (5) any Non Related Service Calls, (6) any Aborted Service Calls, (7) installation of any form of engineering change, enhancement, model conversion or other requested non-covered service, or (8) due to operator error or software related problems.

2. Responsibilities of Customer

2.1 Customer shall provide to Computer Brokers a purchase order or a valid proof of purchase (for warranty service) prior to Computer Broker's initiation of any service on any Unit of Equipment.

2.2 Customer shall provide a list of all Equipment, which is to be subject to this Agreement on the Customer Profile Form attached hereto. Any changes or modifications to such list shall be immediately reported to Computer Brokers. Any Customer request for Maintenance Services on equipment not listed on the attached Customer Profile Form will be repaired at Computer Broker's Time and Materials Rates. New equipment may be added to this Agreement by the mutual agreement of Computer Brokers and the Customer to amend the attached Customer Profile Form.

2.3 Customer shall promptly notify Computer Brokers of any Equipment failure and a Customer authorized employee shall be present during any service.

2.4 Customer shall allow Computer Brokers personnel or independent contractors access to all Equipment and shall notify Computer Brokers of any potential safety or health hazards that may exist at the site, as well as any recommended safety procedures to be followed while at the site.

2.5 Customer shall maintain Customer Site conditions within the environmental range of all system devices and media as specified by the Equipment manufacturer(s).

2.6 Customer is responsible for all Preventative Maintenance and all Equipment related Customer replaceable, expendable or consumable parts.

3. Exclusions

3.1 Any Service(s) outside of the Service Period.

3.2 Services which are required due to improper maintenance, treatment or use of the Equipment.

3.3 Services which, in Computer Broker's opinion, are required due to unauthorized attempts by other than Computer Brokers personnel or independent contractors to install, repair, maintain, or modify any Equipment or related software or peripherals.

3.4 Maintenance Service does not include: (1) operating supplies or accessories or materials for paint or refinishing any Equipment, or (2) electrical work external to the Equipment, or (3) maintenance of accessories, alterations, attachments or other devices, or (4) services connected with relocation of Equipment not originally specifically stated herein.

3.5 Individual hardware products that cannot, in Computer Broker's opinion, be properly serviced due to excessive damage or wear, deterioration or unavailability of parts and documentation. Such products may be withdrawn from coverage hereunder by Computer Brokers upon ninety (90) days prior written notice to Customer.

3.6 Computer Brokers shall not be deemed to be in default of any provision hereof or be liable for any delay, failure in performance, or interruption of service resulting from acts of God, civil or military catastrophes, transportation delays, inability to obtain materials or parts from suppliers, or any other cause beyond its reasonable control.

3.7 Maintenance Service required because of improper installation of Equipment, if such Equipment is not installed by Computer Brokers personnel or independent contractor, shall not be covered by this Agreement and will be billed at Computer Broker's then current Time-and-Materials Rates.

4. Subcontracting

Computer Brokers shall have the right to subcontract any or all of its obligations or responsibilities hereunder to one or more independent contractors.

5. Limitations and Warranty

5.1 Warranty - Unless otherwise stated, all materials, supplies, parts and other products supplied under this Agreement are provided on an "AS IS" basis.

With respect to any Unit of Equipment, part or component covered hereunder, Customer shall be entitled to coverage pursuant to the original manufacturer's warranty and Computer Brokers shall perform repair services pursuant to such warranty when authorized

to act as an authorized service agent for such manufacturer in making warranty repairs. Otherwise, warranty questions or problems with respect to Equipment or such parts and components must be addressed directly to the manufacturer.

Computer Brokers warrants its workmanship on all Hardware Maintenance Repairs for a period of thirty (30) days from the date such services were rendered and shall repair or replace the defective parts or material during such thirty (30) day period without additional charge to customer.

THE WARRANTIES ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED, AND COMPUTER BROKERS SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANT- ABILITY AND FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ANY SERVICES, PARTS, COMPONENTS OR PRODUCTS DELIVERED OR RENDERED HEREUNDER.

5.2 Limitation of Remedies - Computer Broker's entire liability, and Customer 's exclusive remedy for damages from any cause whatsoever, whether caused by the negligence or gross negligence of Computer Brokers or any employee, representative, agent or contractor of Computer Brokers, and regardless of the form of action, shall be limited to the Service Charges paid by Customer for the specific repairs or services hereunder. In no event will Computer Brokers be liable for damages caused by Customer's acts or negligence, or for special, incidental or consequential damages, lost profits, personal injury to any individual, property damage, loss of use of Equipment, loss of stored memory or data, cost of substitute equipment or other incidental or related costs even if Computer Brokers has been advised of the possibility of such damages or costs, or for any claim against Customer by any third party. Customer shall be solely responsible for any data or information stored in, or on, any Equipment and shall be solely responsible for making "back-up" on security copies of such data or information.

6. Relocation of Equipment

Customer will notify Computer Brokers of any proposed relocation of Equipment to a new site at least thirty (30) days in advance of such relocation. Computer Brokers will determine, in its sole discretion, whether the Equipment may be serviced by Computer Brokers in the new location. Response time and Service Charges hereunder may be adjusted by Computer Brokers based on the new location. In the event that the Equipment at the new location requires Computer Brokers to reassign service providers to service the Equipment, then such Equipment shall be excluded from coverage under this Agreement beginning on the date of its relocation removal, and an amendment to this Agreement for service of such Equipment at the new location shall be negotiated by the parties.

7. Payment

The charge for the service offering(s) selected by Customer as set forth on the Customer Profile Form attached hereto shall be payable in full, in advance, by Customer upon the execution of this Agreement. In the event any sum of money owed by Customer under this Agreement is not paid when due and remains unpaid for 10 days after its due date, Computer

Brokers may add a service charge equal to the lesser of 1-1/2% of the past due amount per month or the highest rate allowed by law.

EXHIBIT B

COMPENSATION OR FEES TO BE PAID TO CONTRACTOR

5720 East Cherokee Road
Stockton CA 95215
Phone(209)931-2262
Fax(209)931-2984
www.computer-brokers.com
Mike@computer-brokers.com

ITEM	QTY	PRICE UNIT	PRICE
Normal pricing full support plan			
includes AGENT computer support	29	49	1421
Server support includes backup	3	299	897
Network support	1	600	600
Monthly	1		2918
Project work hourly pricing	125		
24 hour emergency support included			

EXHIBIT C

HEALTH INSURANCE PORTABILITY AND ACCOUNTABILITY ACT SUPPLEMENT

Definitions:

Terms used, but not otherwise defined, in this Contract shall have the same meaning as those terms in the Privacy Rule.

a. Business Associate. "Business Associate" shall mean the Contractor named in the first paragraph of this agreement.

b. Covered Entity. "Covered Entity" shall mean the City of Ione.

c. Designated Record Set. "Designated Record Set" shall mean:

(1) A group of records maintained by or for a covered entity that is:

a. The medical records and billing records about individuals maintained by or for a covered health care provider;

b. The enrollment, payment, claims adjudication, and case or medical management record systems maintained by or for a health plan; or

c. Used, in whole or in part, by or for the covered entity to make decisions about individuals.

(2) For purposes of this paragraph, the term record means any item, collection, or grouping of information that includes protected health information and is maintained, collected, used, or disseminated by or for a covered entity.

d. Individual. "Individual" shall have the same meaning as the term "individual" in 45 CFR § 164.501 and shall include a person who qualifies as a personal representative in accordance with 45 CFR § 164.502(g).

e. Privacy Rule. "Privacy Rule" shall mean the Standards for Privacy of Individually Identifiable Health Information at 45 CFR Part 160 and Part 164, Subparts A and E.

f. Protected Health Information. "Protected Health Information" shall have the same meaning as the term "protected health information" in 45 CFR § 164.501, limited to the information created or received by Business Associate from or on behalf of Covered Entity.

g. Required By Law. "Required By Law" shall have the same meaning as the term "required by law" in 45 CFR § 164.501.

h. Secretary. "Secretary" shall mean the Secretary of the Department of Health and Human Services or his designee.

i. Electronic Protected Health Information. "Electronic Protected Health Information" ("EPHI") means individually identifiable health information that is transmitted or maintained in electronic media, limited to the information created, received, maintained or transmitted by Business Associate from or on behalf of Covered Entity.

j. Security Incident. "Security Incident" shall mean the attempted or successful unauthorized access, use, disclosure, modification, or destruction of information or interference with systems operations in an information system, but does not include minor incidents that occur on a daily basis, such as scans, "pings", or unsuccessful random attempts to penetrate computer networks or servers maintained by Business Associate.

k. Security Rule. "Security Rule" shall mean the Standards for the Protection of Electronic Protected Health Information at 45 CFR Part 160 and Part 164, Subparts A and C.

Obligations of Business Associate

Business Associate shall:

a. Not use or disclose Protected Health Information other than as permitted or required by the Contract or as Required By Law.
b. Use appropriate safeguards to prevent use or disclosure of the Protected Health Information other than as provided for by this Contract.
c. Mitigate, to the extent practicable, any harmful effect that is known to Business Associate of a use or disclosure of Protected Health Information by Business Associate in violation of the requirements of this Contract
d. Report to Covered Entity any use or disclosure of the Protected Health Information in violation of the requirements of this Contract of which it becomes aware.
e. Ensure that any agent, including a subcontractor, to whom it provides or receives Protected Health Information agrees to the same restrictions and conditions that apply through this Contract to Business Associate with respect to such information.
f. Document disclosures of Protected Health Information and information related to such disclosures as would be required for Covered Entity to respond to a request by an Individual for an accounting of disclosures of Protected Health Information in accordance with 45 CFR § 164.528.
g. Provide to Covered Entity or an Individual, in time and manner agreed to between the parties, information collected pursuant to this Contract, to permit Covered Entity to respond to a request by an Individual for an accounting of disclosures of Protected Health Information in accordance with 45 CFR § 164.528.
h. Provide access, at the request of Covered Entity, and in the time and manner agreed to by the parties, to Protected Health Information in a Designated Record Set, to Covered Entity or, as directed by Covered Entity, to an Individual in order to meet the requirements under 45 CFR §164.524.
i. Make any amendment(s) to Protected Health Information in a Designated Record set that the Covered Entity directs or agrees to pursuant to 45 CFR §164.526 at the request of Covered Entity or an Individual, and in the time and manner agreed to between the parties.
j. Business Associate shall implement administrative, physical, and technical safeguards that reasonably and appropriately protect the confidentiality, integrity, and availability of EPHI that Business Associate creates, receives, maintains, or transmits on behalf of Covered Entity.
k. Business Associate shall conform to generally accepted system security principles and the requirements of the final HIPAA rule pertaining to the security of health information.
l. Business Associate shall ensure that any agent to whom it provides EPHI, including a subcontractor, agrees to implement reasonable and appropriate safeguards to protect such EPHI.

m. Business Associate shall report to Covered Entity any Security Incident within 5 business days of becoming aware of such incident.
n. Business Associate shall make its policies, procedures, and documentation relating to the security and privacy of protected health information, including EPHI, available to the Secretary of the U.S. Department of Health and Human Services and, at Covered Entity's request, to the Covered Entity for purposes of the Secretary determining Covered Entity's compliance with the HIPAA privacy and security regulations.

Permitted Uses and Disclosures by Business Associate

Except as otherwise limited in this Contract, Business Associate may use or disclose Protected Health Information to perform functions, activities, or services for, or on behalf of, Covered Entity as specified in this Contract, provided that such use or disclosure would not violate the Privacy Rule if done by Covered Entity or the minimum necessary policies and procedures of the Covered Entity.

Obligations of Covered Entity

Covered Entity shall notify Business Associate of any:

a. Limitation(s) in its notice of privacy practices of Covered Entity in accordance with 45 CFR § 164.520, to the extent that such limitation may affect Business Associate's use or disclosure of Protected Health Information.
b. Changes in, or revocation of, permission by Individual to use or disclose Protected Health Information, to the extent that such changes may affect Business Associate's use or disclosure of Protected Health Information.
c. Restriction to the use or disclosure of Protected Health Information that Covered Entity has agreed to in accordance with 45 CFR § 164.522, to the extent that such restriction may affect Business Associate's use or disclosure of Protected Health Information.

Permissible Requests by Covered Entity

Covered Entity shall not request Business Associate to use or disclose Protected Health Information in any manner that would not be permissible under the Privacy Rule if done by Covered Entity.

Term and Termination

a. Term. The Term of these provisions shall be concurrent with the term of the Contract, and shall terminate when all of the Protected Health Information provided by Covered Entity to Business Associate, or created or received by Business Associate on behalf of Covered Entity, is destroyed or returned to Covered Entity, or, if it is infeasible to return or destroy Protected Health Information, protections are extended to such information, in accordance with the termination provisions in this Section.
b. Termination for Cause. Upon Covered Entity's knowledge of a material breach by Business Associate, Covered Entity shall either:
    a. Provide an opportunity for Business Associate to cure the breach or end the violation and terminate this Contract if Business Associate does not cure the breach or end the violation within the time specified by Covered Entity;

b. Immediately terminate this Contract if Business Associate has breached a material term of this Contract and cure is not possible; or
c. If neither termination nor cure are feasible, Covered Entity shall report the violation to the Secretary.

c. Effect of Termination.
   a. Except as provided in paragraph (2) of this section, upon termination of this Contract, for any reason, Business Associate shall return or destroy all Protected Health Information received from Covered Entity, or created or received by Business Associate on behalf of Covered Entity. This provision shall apply to Protected Health Information that is in the possession of subcontractors or agents of Business Associate. Business Associate shall retain no copies of the Protected Health Information.
   b. In the event that Business Associate determines that returning or destroying the Protected Health Information is infeasible, Business Associate shall provide to Covered Entity notification of the conditions that make return or destruction infeasible. Upon determination that return or destruction of Protected Health Information is infeasible, Business Associate shall extend the protections of this Contract to such Protected Health Information and limit further uses and disclosures of such Protected Health Information to those purposes that make the return or destruction infeasible, for so long as Business Associate maintains such Protected Health Information.

Reservation of Right to Monitor Activities.
Covered Entity reserves the right to monitor the security policies and procedures of Business Associate.

Specific Provisions for Use and Disclosures by Business Associate of PHI Subject to 42 CFR Part 2.
(a) Covered Entity operates a program for treatment of alcohol or drug abuse, receives federal financial assistance in the operation of that program, and is required to comply with 42 CFR Part 2 pertaining to use and disclosure of patient information and patient records.
(b) Business Associate is a "Qualified Service Organization" as that term is defined at 42 CFR 2.11.
(c) Business Associate acknowledges that it will have access to records that are covered by 42 CFR Part 2. Business Associate agrees that it is fully bound by the provisions of 42 CFR Part 2, and will only use and disclose protected health information as permitted by those regulations. Business Associate will, if necessary, resist in judicial proceedings any effort to obtain access to patient records not permitted by 42 CFR Part 2.

Miscellaneous
a. Regulatory References. A reference in this Contract to a section in the Privacy Rule means the section as in effect or as amended.
b. Amendment. The Parties agree to take such action as is necessary to amend this Contract from time to time as is necessary for Covered Entity to comply with

the requirements of the Privacy Rule and the Health Insurance Portability and Accountability Act of 1996, Pub. L. No. 104-191.

c. Interpretation. Any ambiguity in this Contract shall be resolved to permit Covered Entity to comply with the Privacy Rule.

Item # 7

MAYOR EPPERSON WILL PRESENT

ASSIGNMENTS AT MEETING

Item #8

Guest Commentary
State of the City Report
Ione City Council
Ledger Dispatch

The year 2021 was a challenging year in so many ways for the City of Ione. Covid and the changing economy has required a flexibility and adaptability for the entire community that we have not experienced in our lifetime. Despite these challenges, or maybe because of them, Ione has become a stronger and tighter knit community that can point to some very significant achievements:

- A structurally balanced budget, with a $500,000 surplus and an adopted plan to pay off past debts over 25 years
- One-time special revenues of $2.04 million from the American Rescue Plan Act (ARPA) that have been used to modernize Fire Station 1 and City Hall (updated technology, new carpet and paint), and add floor space by purchasing the property next door to City Hall to better serve the community.
- ARPA monies have also been used to assist many local businesses that suffered losses during the pandemic
- The City will be, very soon, fully staffed with qualified people in Finance, Inspection/Code Enforcement, Public Works, and a Management Analyst. These positions were approved previously or existing positions that were vacated and never filled.
- Required audits completed shortly, thanks to our Interim City Manager, Interim Finance Manager, and the hard-working Finance staff.
- Discussion of expanding our solar footprint to insure we are being frugal with our spending into the future
- Reviewing additional grant funds. For a small city with limited tax revenues, grants offer Ione options we would not otherwise have available to use. We will be looking at Parks and Rec Grants, Public Safety Grants, Safe Routes to School grants, Regional Water Grants and infrastructure Grants going forward.
- Add capacity to the Wastewater Treatment Plant for the long term by updating the Waste Water Discharge Requirements (WDR) Permit and update the operating procedures of the WTTP

These achievements could not have been realized without a unified agreement on the priorities for the City. When a majority of the Council takes an action (three or more) but one or two do not support that action it is still the policy of the City. To then attack and continually and relentlessly criticize the majority decision is not only anti-democratic but counter-productive to achieving the goals of the City. As we move forward the Council will strive to support whatever majority decision is made and stand by it.

Ione City Council is made up of five diverse individuals with common goals. While we each bring our own history and perspective to the table we act as a body with one voice. No one Council member is more important or has more power or control than the others, by design. We all have the responsibility to look to our past and move the City into the future with clear and well-planned strategies. With the State actively pursuing the sale of the Preston Property we will need to come together as a community and discuss what Ione will look like in 10 or 20 years.

Through collaboration and ongoing discussion Ione can insure we remain a family oriented, neighbor driven community that cares about each other and our Town. We must remain vigilant against those who would try to limit our ability to remain a strong and independent City.

It is the Council's hope that the information above helps everyone to come together for the good of Ione. We are not without our challenges, and we are going to make some missteps and mistakes as we go, but we will always try to do what is best for the City.

In closing, please remember the Ione City Councilmembers are all here because we care about Ione. Some of us have grown up here, some have raised and continue to raise families here, and some live and work in this great little Town. We all five share one overriding value and goal; to make a positive impact on the future of Ione for your families, and ours.

Mayor, Dan Epperson

Vice Mayor Rodney Plamondon

Council Member Dominic Atlan

Council Member Diane Wratten

Council Member Stacy Rhoades